

KS3 Mathematics Homework



Pack A: Level 3

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1 Place value – 1



Write these numbers in words:

- | | | | |
|---|-----|---------|--------------------------|
| 1 | 72 | 1 | <input type="checkbox"/> |
| 2 | 30 | 2 | <input type="checkbox"/> |
| 3 | 427 | 3 | <input type="checkbox"/> |
| 4 | 253 | 4 | <input type="checkbox"/> |
| 5 | 783 | 5 | <input type="checkbox"/> |
| 6 | 500 | 6 | <input type="checkbox"/> |
| 7 | 320 | 7 | <input type="checkbox"/> |
| 8 | 608 | 8 | <input type="checkbox"/> |

Write these numbers in figures:

- | | | | |
|----|--------------------------------|----------|--------------------------|
| 9 | Thirty-one | 9 | <input type="checkbox"/> |
| 10 | Two hundred and fifty-seven | 10 | <input type="checkbox"/> |
| 11 | Forty | 11 | <input type="checkbox"/> |
| 12 | Three hundred and sixty-one | 12 | <input type="checkbox"/> |
| 13 | Five hundred and thirty-four | 13 | <input type="checkbox"/> |
| 14 | Nine hundred and seventy-eight | 14 | <input type="checkbox"/> |
| 15 | Seven hundred and three | 15 | <input type="checkbox"/> |
| 16 | Two hundred and ninety | 16 | <input type="checkbox"/> |

Here are three cards:



- | | | | |
|----|---|----------|--------------------------|
| 17 | What is the largest number you can make? | 17 | <input type="checkbox"/> |
| 18 | What is the smallest number you can make? | 18 | <input type="checkbox"/> |
| 19 | A school has 400 boys. One boy leaves.
How many boys remain? | 19 | <input type="checkbox"/> |
| 20 | A school hall has 289 chairs.
One chair is removed.
How many chairs remain? | 20 | <input type="checkbox"/> |



Minimum mark	16	13	10	7	
Circle grade	A	B	C	D	E

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2 Place value – 2



What is the value of the '6' in these figures?

- | | | | |
|---|-----|--------|--------------------------|
| 1 | 36 | 1..... | <input type="checkbox"/> |
| 2 | 268 | 2..... | <input type="checkbox"/> |
| 3 | 640 | 3..... | <input type="checkbox"/> |
| 4 | 306 | 4..... | <input type="checkbox"/> |
| 5 | 699 | 5..... | <input type="checkbox"/> |
| 6 | 168 | 6..... | <input type="checkbox"/> |

Which is the largest number in each list?

- | | | | | | | |
|----|-----|-----|-----|-----|---------|--------------------------|
| 7 | 382 | 801 | 266 | 399 | 7..... | <input type="checkbox"/> |
| 8 | 300 | 781 | 684 | 209 | 8..... | <input type="checkbox"/> |
| 9 | 573 | 399 | 700 | 638 | 9..... | <input type="checkbox"/> |
| 10 | 99 | 87 | 108 | 137 | 10..... | <input type="checkbox"/> |

Which is the smallest number in each list?

- | | | | | | | |
|----|-----|-----|-----|-----|---------|--------------------------|
| 11 | 77 | 103 | 819 | 683 | 11..... | <input type="checkbox"/> |
| 12 | 800 | 803 | 555 | 699 | 12..... | <input type="checkbox"/> |
| 13 | 98 | 103 | 112 | 89 | 13..... | <input type="checkbox"/> |
| 14 | 708 | 780 | 870 | 807 | 14..... | <input type="checkbox"/> |

Place these numbers in order, smallest first:

- | | | | | | | |
|----|-----|-----|-----|-----|---------|--------------------------|
| 15 | 377 | 200 | 307 | 283 | 15..... | <input type="checkbox"/> |
| 16 | 638 | 609 | 599 | 611 | 16..... | <input type="checkbox"/> |
| 17 | 378 | 801 | 380 | 199 | 17..... | <input type="checkbox"/> |

Place these numbers in order, largest first:

- | | | | | | | |
|----|-----|-----|-----|-----|---------|--------------------------|
| 18 | 88 | 103 | 97 | 110 | 18..... | <input type="checkbox"/> |
| 19 | 386 | 207 | 431 | 298 | 19..... | <input type="checkbox"/> |
| 20 | 989 | 992 | 999 | 899 | 20..... | <input type="checkbox"/> |



Minimum mark	16	13	10	7	
Circle grade	A	B	C	D	E

20

3 Approximation

Round these numbers to the nearest ten:

- | | | | |
|---|-----|--------|--------------------------|
| 1 | 78 | 1..... | <input type="checkbox"/> |
| 2 | 361 | 2..... | <input type="checkbox"/> |
| 3 | 237 | 3..... | <input type="checkbox"/> |
| 4 | 481 | 4..... | <input type="checkbox"/> |
| 5 | 65 | 5..... | <input type="checkbox"/> |
| 6 | 898 | 6..... | <input type="checkbox"/> |

Round these numbers to the nearest hundred:

- | | | | |
|----|-----|---------|--------------------------|
| 7 | 816 | 7..... | <input type="checkbox"/> |
| 8 | 381 | 8..... | <input type="checkbox"/> |
| 9 | 127 | 9..... | <input type="checkbox"/> |
| 10 | 87 | 10..... | <input type="checkbox"/> |
| 11 | 32 | 11..... | <input type="checkbox"/> |
| 12 | 350 | 12..... | <input type="checkbox"/> |

13 427 people were on a train.
Write this number correct to:

- | | | | |
|---|---------------------|-----------|--------------------------|
| a | The nearest ten | 13a | <input type="checkbox"/> |
| b | The nearest hundred | 13b..... | <input type="checkbox"/> |

14 John has 681 stamps. Write this number correct to:

- | | | | |
|---|---------------------|-----------|--------------------------|
| a | The nearest ten | 14a | <input type="checkbox"/> |
| b | The nearest hundred | 14b..... | <input type="checkbox"/> |

15 David has £365. Write this number correct to:

- | | | | |
|---|---------------------|-----------|--------------------------|
| a | The nearest ten | 15a | <input type="checkbox"/> |
| b | The nearest hundred | 15b..... | <input type="checkbox"/> |

16 A firm employed 882 people.
Write this number correct to:

- | | | | |
|---|---------------------|-----------|--------------------------|
| a | The nearest ten | 16a | <input type="checkbox"/> |
| b | The nearest hundred | 16b..... | <input type="checkbox"/> |

Minimum mark	16	13	10	7	
Circle grade	A	B	C	D	E

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4 Decimals: Money – 1

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Write each sum of money in figures:

- | | | | |
|---|------------------------------------|-----------|--------------------------|
| 1 | $£1 + £1 + 20p + 20p + 10p + 2p$ | 1 £ | <input type="checkbox"/> |
| 2 | $£1 + £1 + 10p + 10p + 5p$ | 2 £ | <input type="checkbox"/> |
| 3 | $£1 + 20p + 10p + 5p + 5p + 5p$ | 3 £ | <input type="checkbox"/> |
| 4 | $£1 + £1 + £1 + £1 + 5p + 5p + 2p$ | 4 £ | <input type="checkbox"/> |
| 5 | $£1 + 20p + 5p + 5p + 2p + 2p$ | 5 £ | <input type="checkbox"/> |
| 6 | $20p + 20p + 10p + 10p$ | 6 £ | <input type="checkbox"/> |
| 7 | $£1 + 20p + 20p + 1p$ | 7 £ | <input type="checkbox"/> |
| 8 | $£1 + £1 + 2p + 1p + 1p$ | 8 £ | <input type="checkbox"/> |

Use a calculator to work out these sums:

- | | | | |
|----|-----------------|------------|--------------------------|
| 9 | $£3.72 + £2.16$ | 9 £ | <input type="checkbox"/> |
| 10 | $£4.38 + £2.17$ | 10 £ | <input type="checkbox"/> |
| 11 | $£6.81 - £3.93$ | 11 £ | <input type="checkbox"/> |
| 12 | $£8.71 - £3.99$ | 12 £ | <input type="checkbox"/> |
| 13 | $£1.37 + £1.85$ | 13 £ | <input type="checkbox"/> |
| 14 | $£4.28 + £0.93$ | 14 £ | <input type="checkbox"/> |
| 15 | $£5.73 - £1.33$ | 15 £ | <input type="checkbox"/> |
| 16 | $£4.28 - £2.30$ | 16 £ | <input type="checkbox"/> |

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Minimum mark	13	11	8	5	
Circle grade	A	B	C	D	E

16



5 Decimals: Money – 2

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Do not use a calculator.

Work out the change from a £5 note if you spend the following amounts:

- | | | | |
|----|-------|------------|--------------------------|
| 1 | 24p | 1 £ | <input type="checkbox"/> |
| 2 | 72p | 2 £ | <input type="checkbox"/> |
| 3 | 6p | 3 £ | <input type="checkbox"/> |
| 4 | £2.21 | 4 £ | <input type="checkbox"/> |
| 5 | £3.20 | 5 £ | <input type="checkbox"/> |
| 6 | £4 | 6 £ | <input type="checkbox"/> |
| 7 | £1.27 | 7 £ | <input type="checkbox"/> |
| 8 | £2.98 | 8 £ | <input type="checkbox"/> |
| 9 | £4.29 | 9 £ | <input type="checkbox"/> |
| 10 | £2.30 | 10 £ | <input type="checkbox"/> |

Work out the change from a £1 coin if you spend the following amounts:

- | | | | |
|----|-------|------------|--------------------------|
| 11 | 27p | 11 £ | <input type="checkbox"/> |
| 12 | 36p | 12 £ | <input type="checkbox"/> |
| 13 | 70p | 13 £ | <input type="checkbox"/> |
| 14 | £0.38 | 14 £ | <input type="checkbox"/> |
| 15 | £0.74 | 15 £ | <input type="checkbox"/> |
| 16 | £0.60 | 16 £ | <input type="checkbox"/> |

Work out the change from a £10 note if you spend the following amounts:

- | | | | |
|----|-------|------------|--------------------------|
| 17 | £8.81 | 17 £ | <input type="checkbox"/> |
| 18 | £6.37 | 18 £ | <input type="checkbox"/> |
| 19 | £3.43 | 19 £ | <input type="checkbox"/> |
| 20 | 37p | 20 £ | <input type="checkbox"/> |

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Minimum mark	16	13	10	7	
Circle grade	A	B	C	D	E

20

6 Money: Using a calculator – 1

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How much change is received from a £5 note if the following amounts of money are spent?

- | | | | |
|---|-------|-----------|--------------------------|
| 1 | 38p | 1 £ | <input type="checkbox"/> |
| 2 | 6p | 2 £ | <input type="checkbox"/> |
| 3 | 70p | 3 £ | <input type="checkbox"/> |
| 4 | £3.28 | 4 £ | <input type="checkbox"/> |
| 5 | £2.30 | 5 £ | <input type="checkbox"/> |
| 6 | £1.96 | 6 £ | <input type="checkbox"/> |

For questions 8 to 15:

- a Find the cost of the following
- b How much change is received from a £10 note?

- | | | | |
|----|---------------------------------|-------------|--------------------------|
| 7 | Four coffees at 27p each | 7a £ | <input type="checkbox"/> |
| | | 7b £ | <input type="checkbox"/> |
| 8 | Seven pencils at 17p each | 8a £ | <input type="checkbox"/> |
| | | 8b £ | <input type="checkbox"/> |
| 9 | Ten teas at 18p each | 9a £ | <input type="checkbox"/> |
| | | 9b £ | <input type="checkbox"/> |
| 10 | Six pens at 39p each | 10a £ | <input type="checkbox"/> |
| | | 10b £ | <input type="checkbox"/> |
| 11 | Five colas at £0.45 each | 11a £ | <input type="checkbox"/> |
| | | 11b £ | <input type="checkbox"/> |
| 12 | Three rulers at £1.30 each | 12a £ | <input type="checkbox"/> |
| | | 12b £ | <input type="checkbox"/> |
| 13 | Nine tins of soup at £0.27 each | 13a £ | <input type="checkbox"/> |
| | | 13b £ | <input type="checkbox"/> |
| 14 | Two books at £1.99 each | 14a £ | <input type="checkbox"/> |
| | | 14b £ | <input type="checkbox"/> |
| 15 | Three cakes at £0.32 each | 15a £ | <input type="checkbox"/> |
| | | 15b £ | <input type="checkbox"/> |

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Minimum mark	19	16	12	8	
Circle grade	A	B	C	D	E

24

7 Money: Using a calculator – 2

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How much change is received from a £5 note if the following items are bought?

- 1 Three teas
- 2 Tea, burger and cake
- 3 Cola and burger
- 4 Four cakes
- 5 Two cakes, three coffees
- 6 Tea, cola, coffee and cake

Menu	
Tea	£0.27
Coffee	£0.38
Cola	£0.42
Cake	£0.75
Burger	£0.99

- 1 £
- 2 £
- 3 £
- 4 £
- 5 £
- 6 £

Find the cost of the following:

- 7 Six books at £6.99 each
- 8 Nine chairs at £16.05 each
- 9 15 desks at £28.30 each
- 10 12 plant pots at 78p each
- 11 16 cakes at 23p each
- 12 23 fence posts at £3.68 each
- 13 30 rulers at £0.72 each
- 14 Six stools cost £43.50. Find the cost of one stool.
- 15 Three armchairs cost £146.97.
Find the cost of one armchair.
- 16 Ten books £69.50. Find the cost of one book.
- 17 14 pencils cost £3.22. Find the cost of one pencil.
- 18 22 tables cost £278.30. Find the cost of one table.
- 19 28 rulers cost £11.20. Find the cost of one ruler.
- 20 30 pens cost £29.70. Find the cost of one pen.

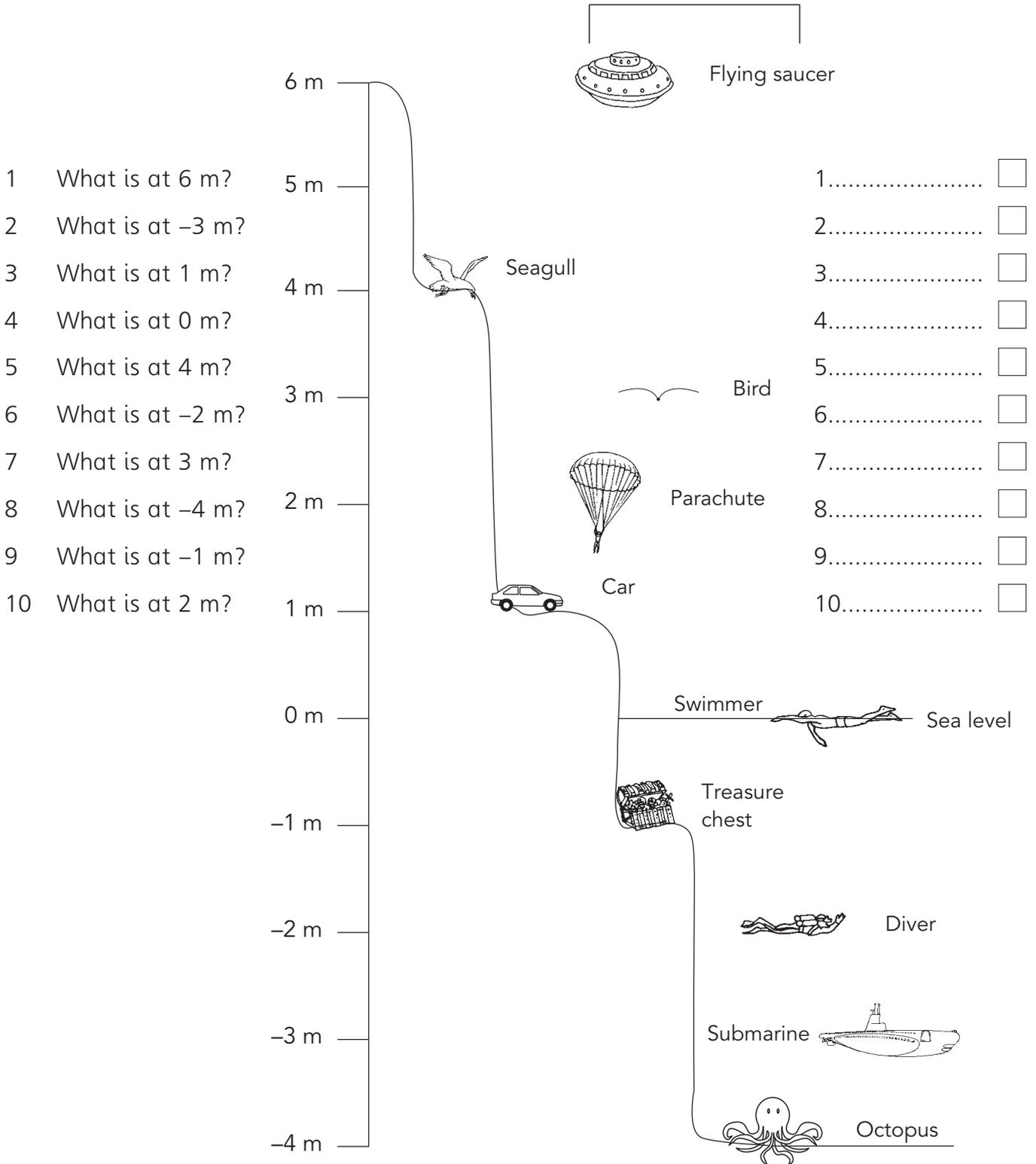
- 7 £
- 8 £
- 9 £
- 10 £
- 11 £
- 12 £
- 13 £
- 14 £
- 15 £
- 16 £
- 17 £
- 18 £
- 19 £
- 20 £

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Minimum mark	16	13	10	7	
Circle grade	A	B	C	D	E

20

8 Negative numbers – 1



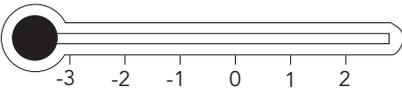
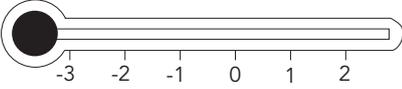
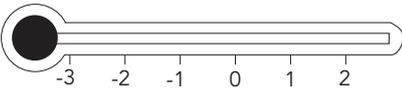
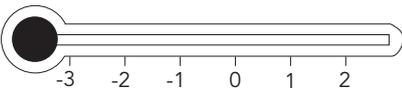
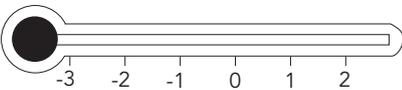
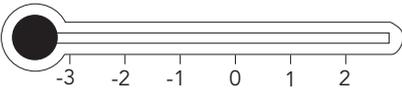
Put a circle around the negative numbers:

- 11 3 -5 4
- 12 -2 -6 8
- 13 5 1 -2
- 14 6 -3 0
- 15 -2 -4 -6
- 16 3 -2 -8
- 11..3...-5...4...
- 12..-2...-6...8...
- 13..5...1...-2...
- 14..6...-3...0...
- 15..-2...-4...-6...
- 16..3...-2...-8...

Minimum mark	13	11	8	5	
Circle grade	A	B	C	D	E

9 Negative numbers – 2

Shade in the thermometers to show these temperatures:

1	2°		1	<input type="checkbox"/>
2	-2°		2	<input type="checkbox"/>
3	-1°		3	<input type="checkbox"/>
4	0°		4	<input type="checkbox"/>
5	-3°		5	<input type="checkbox"/>
6	1°		6	<input type="checkbox"/>

Which is the smallest and largest number in each list?

7	6, -10, 3, 0	The smallest number is 7a	<input type="checkbox"/>
		The largest number is 7b	<input type="checkbox"/>
8	-4, -2, -8, -3	The smallest number is 8a	<input type="checkbox"/>
		The largest number is 8b	<input type="checkbox"/>
9	8, -2, -3, 0	The smallest number is 9a	<input type="checkbox"/>
		The largest number is 9b	<input type="checkbox"/>
10	-5, 0, 1, 2	The smallest number is 10a	<input type="checkbox"/>
		The largest number is 10b	<input type="checkbox"/>
11	Place these numbers in order of size, smallest first: -3, 8, -5, 4	11	<input type="checkbox"/>
12	Place these numbers in order of size, largest first: -8, 2, -3, 0	12	<input type="checkbox"/>

Minimum mark	13	11	8	5	
Circle grade	A	B	C	D	E



10 Addition and subtraction facts

- 1 8 take-away 3 1.....
- 2 Add 3 and 16 2.....
- 3 Add these numbers: 10, 3, 4 3.....
- 4 Which number is 7 less than 13? 4.....
- 5 Take-away 8 from 17 5.....
- 6 Subtract 9 from 13 6.....
- 7 12 minus 5 7.....
- 8 8 add 9 8.....
- 9 How many more than 3 is 9? 9.....
- 10 6 add 7 add 9 10.....
- 11 7 plus 4 11.....
- 12 Which number is 6 more than 8? 12.....
- 13 What is the difference between 11 and 18? 13.....
- 14 How many more than 6 is 11? 14.....
- 15 On a train there were seventeen passengers.
It arrived at a station and six got off.
How many passengers were left on the train? 15.....
- 16 Jayne had eighteen sweets. She ate five.
How many sweets did she have left? 16.....
- 17 Abigail is seven years old. Her brother is eight
years older. How old is her brother? 17.....
- 18 Today is Wednesday 6th April. What will the
date be next Wednesday? 18.....
- 19 Today is Tuesday 18th May. What was the
date last Tuesday? 19.....
- 20 There were six boys and nine girls in a class.
How many children were in the class? 20.....

Minimum mark	16	13	10	7	
Circle grade	A	B	C	D	E

20



11 Tables



- 1 David has £15. He decided to buy some books.
Each cost £3. How many books did he buy? 1.....
- 2 Peter bought 7 packs of golf balls. Each pack
contained 4 balls. How many balls did he buy? 2.....
- 3 Julie bought 9 tickets to see a show.
Each ticket cost £10. What was the total cost? 3.....
- 4 A football club had 30 players. They were divided
into teams of 5. How many teams were there? 4.....
- 5 Mrs King stayed in a hotel for six nights. The cost
was £10 per night. What was the total cost? 5.....
- 6 Mr Ryan bought eight plates. The total cost was £16.
What was the cost of each plate? 6.....
- 7 Amanda bought 3 cartons of eggs.
Each carton contained six eggs. How many eggs
did she have altogether? 7.....
- 8 What is the cost of 4 burgers at £2 each? 8.....
- 9 Jenny has £27. Pens cost £3 each.
How many can she buy? 9.....
- 10 Kirsten bought some tickets for the school play.
She bought 7 tickets. The total was £14.
How much did each ticket cost? 10.....
- 11 What is the cost of 8 pens at £3 each? 11.....
- 12 How many twos make 18? 12.....
- 13 How many fives make 30? 13.....
- 14 How many tens make 60? 14.....
- 15 How many fours make 28? 15.....
- 16 How many threes make 21? 16.....
- 17 7×5 17.....
- 18 9×2 18.....
- 19 7×10 19.....
- 20 4×4 20.....



Minimum mark	16	13	10	7	
Circle grade	A	B	C	D	E

 20

12 Whole number problems with remainders

- 1 A lift can carry a maximum of ten people.
How many journeys up must be made to take 37
people from the ground floor to the top floor? 1.....
- 2 Shirts cost £3 each. How many can you buy with £23? 2.....
- 3 How many 5-litre cans of water can be filled from
a tank containing 28 litres? 3.....
- 4 Eggs are packed in cartons of 10. You need 82 eggs.
How many cartons should you buy? 4.....
- 5 There are 5 players in each five-a-side
football team. How many complete teams
can be formed with 17 players? 5.....
- 6 Books cost £4 each. How many can you buy for £27? 6.....
- 7 $6\frac{1}{4}$ rolls of wallpaper are needed for a room.
How many rolls should be bought? 7.....
- 8 Light bulbs are sold in packs of 10.
The school needs 72 light bulbs.
How many packs should be bought? 8.....
- 9 Ties cost £2 each. How many can you buy with £19? 9.....
- 10 Paint is sold in 5-litre tins. You need 32 litres.
How many should you buy? 10.....
- 11 Batteries are sold in packs of 3.
You need 10 batteries.
How many packs must you buy? 11.....
- 12 You have 30 golf balls. You put them into boxes of 4.
How many boxes can you fill? 12.....
- 13 $3\frac{1}{2}$ litres of varnish are needed. Varnish is sold
in 1 litre tins. How many tins are needed? 13.....
- 14 Pencils are packed in boxes of ten. How many
boxes can you fill with 73 pencils? 14.....
- 15 4 people can sit at a table. How many tables are
needed for 31 people? 15.....
- 16 Batteries are sold in packs of 2.
You need 19 batteries. How many packs do you need? 16.....

Minimum mark	13	11	8	5	
Circle grade	A	B	C	D	E

13 Calculator skills

- 1 John has 287 books, Peter has 362 books.
How many books do they have altogether? 1.....
- 2 Kim has £487. She spends £162. How much money
does she have left? 2.....
- 3 A case of wine holds 12 bottles. Mr Sims has 17 cases.
How many bottles does he have? 3.....
- 4 Marie has 252 photos. She puts them into 18 albums.
How many photos are in each album? 4.....
- 5 966 pigs are put into 23 fields.
How many pigs are in each field? 5.....
- 6 Amanda, Karen and Lorraine decide to go on holiday.
Amanda has £368, Karen has £187 and Lorraine
has £206. How much money do they have altogether? 6.....
- 7 A school has 26 classes. There are 31 pupils
in each class. How many pupils are in the school? 7.....
- 8 Paul had 125 sweets. He ate 16 sweets.
How many sweets did he have left? 8.....
- 9 A cinema has 27 rows of seats. Each row has
17 seats. How many seats are in the cinema? 9.....
- 10 A school has 448 chairs. 28 chairs are placed
in each classroom. How many classrooms are there? 10.....
- 11 Mr Miller has 372 cows. He buys 87 more cows.
How many cows does he have altogether? 11.....
- 12 A water tank contains 283 litres. 91 litres are removed.
How many litres remain in the tank? 12.....
- 13 A grocer buys 128 cartons of eggs. Each carton
holds 12 eggs. How many eggs does he have? 13.....
- 14 Richard has 287 stamps. Chris has 191 stamps.
How many stamps do they have altogether? 14.....
- 15 Kelly has 87 books. She sells 63 of them.
How many does she have left? 15.....
- 16 An army camp has 544 soldiers. The soldiers are
placed in huts. 32 soldiers are put into each hut.
How many huts are there? 16.....

Minimum mark	13	11	8	5	
Circle grade	A	B	C	D	E



14 Addition and subtraction – 1



- | | | | |
|----|-------------|---------|--------------------------|
| 1 | $42 + 21$ | 1..... | <input type="checkbox"/> |
| 2 | $38 + 51$ | 2..... | <input type="checkbox"/> |
| 3 | $36 - 12$ | 3..... | <input type="checkbox"/> |
| 4 | $48 - 27$ | 4..... | <input type="checkbox"/> |
| 5 | $67 + 10$ | 5..... | <input type="checkbox"/> |
| 6 | $28 + 14$ | 6..... | <input type="checkbox"/> |
| 7 | $34 - 14$ | 7..... | <input type="checkbox"/> |
| 8 | $63 - 23$ | 8..... | <input type="checkbox"/> |
| 9 | $47 + 8$ | 9..... | <input type="checkbox"/> |
| 10 | $63 + 4$ | 10..... | <input type="checkbox"/> |
| 11 | $48 - 29$ | 11..... | <input type="checkbox"/> |
| 12 | $72 - 18$ | 12..... | <input type="checkbox"/> |
| 13 | $148 + 229$ | 13..... | <input type="checkbox"/> |
| 14 | $63 + 8$ | 14..... | <input type="checkbox"/> |
| 15 | $62 - 57$ | 15..... | <input type="checkbox"/> |
| 16 | $40 - 28$ | 16..... | <input type="checkbox"/> |
| 17 | $226 + 368$ | 17..... | <input type="checkbox"/> |
| 18 | $43 + 27$ | 18..... | <input type="checkbox"/> |
| 19 | $364 - 28$ | 19..... | <input type="checkbox"/> |
| 20 | $281 - 137$ | 20..... | <input type="checkbox"/> |
| 21 | $382 + 197$ | 21..... | <input type="checkbox"/> |
| 22 | $468 + 109$ | 22..... | <input type="checkbox"/> |
| 23 | $328 - 79$ | 23..... | <input type="checkbox"/> |
| 24 | $611 - 174$ | 24..... | <input type="checkbox"/> |



Minimum mark	19	16	12	8	
Circle grade	A	B	C	D	E

24



15 Addition and subtraction – 2



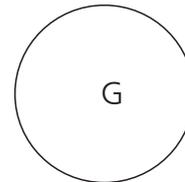
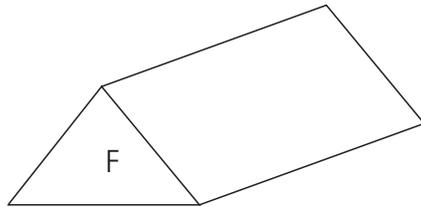
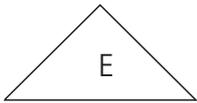
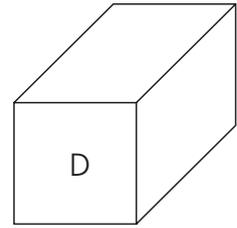
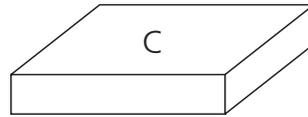
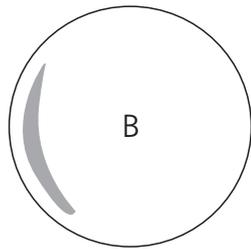
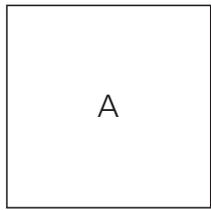
- | | | | |
|----|-------------|---------|--------------------------|
| 1 | $72 + 6$ | 1..... | <input type="checkbox"/> |
| 2 | $43 + 8$ | 2..... | <input type="checkbox"/> |
| 3 | $25 - 13$ | 3..... | <input type="checkbox"/> |
| 4 | $68 - 27$ | 4..... | <input type="checkbox"/> |
| 5 | $27 + 3$ | 5..... | <input type="checkbox"/> |
| 6 | $45 + 32$ | 6..... | <input type="checkbox"/> |
| 7 | $38 - 20$ | 7..... | <input type="checkbox"/> |
| 8 | $74 - 9$ | 8..... | <input type="checkbox"/> |
| 9 | $67 + 17$ | 9..... | <input type="checkbox"/> |
| 10 | $45 + 28$ | 10..... | <input type="checkbox"/> |
| 11 | $53 - 26$ | 11..... | <input type="checkbox"/> |
| 12 | $82 - 53$ | 12..... | <input type="checkbox"/> |
| 13 | $269 + 314$ | 13..... | <input type="checkbox"/> |
| 14 | $428 + 128$ | 14..... | <input type="checkbox"/> |
| 15 | $70 - 23$ | 15..... | <input type="checkbox"/> |
| 16 | $60 - 14$ | 16..... | <input type="checkbox"/> |
| 17 | $62 + 18$ | 17..... | <input type="checkbox"/> |
| 18 | $43 + 27$ | 18..... | <input type="checkbox"/> |
| 19 | $321 - 123$ | 19..... | <input type="checkbox"/> |
| 20 | $437 - 168$ | 20..... | <input type="checkbox"/> |
| 21 | $531 + 278$ | 21..... | <input type="checkbox"/> |
| 22 | $206 + 107$ | 22..... | <input type="checkbox"/> |
| 23 | $527 - 83$ | 23..... | <input type="checkbox"/> |
| 24 | $381 - 193$ | 24..... | <input type="checkbox"/> |



Minimum mark	19	16	12	8	
Circle grade	A	B	C	D	E

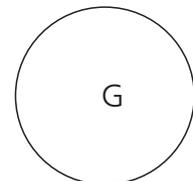
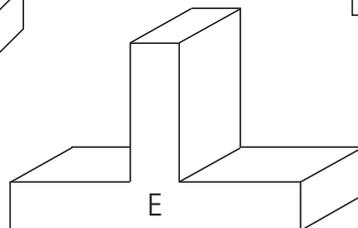
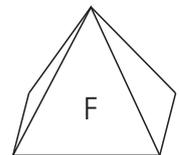
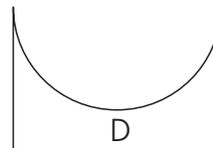
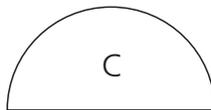
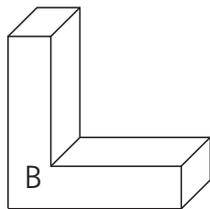
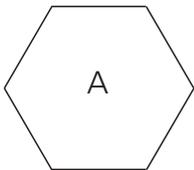
_____ 24

16 2-D and 3-D shapes – 1



Circle the answers

- | | | | | | | | | | | |
|---|-----------------------------------|---|---|---|---|---|---|---|---|--------------------------|
| 1 | Which shapes are 2-D? | 1 | A | B | C | D | E | F | G | <input type="checkbox"/> |
| 2 | Which shapes are 3-D? | 2 | A | B | C | D | E | F | G | <input type="checkbox"/> |
| 3 | Which shapes have straight edges? | 3 | A | B | C | D | E | F | G | <input type="checkbox"/> |
| 4 | Which shapes have curves? | 4 | A | B | C | D | E | F | G | <input type="checkbox"/> |
| 5 | Which shapes are cuboids? | 5 | A | B | C | D | E | F | G | <input type="checkbox"/> |



- | | | | | | | | | | | |
|----|-----------------------------------|----|---|---|---|---|---|---|---|--------------------------|
| 6 | Which shapes are 2-D? | 6 | A | B | C | D | E | F | G | <input type="checkbox"/> |
| 7 | Which shapes are 3-D? | 7 | A | B | C | D | E | F | G | <input type="checkbox"/> |
| 8 | Which shapes have straight edges? | 8 | A | B | C | D | E | F | G | <input type="checkbox"/> |
| 9 | Which shapes have curves? | 9 | A | B | C | D | E | F | G | <input type="checkbox"/> |
| 10 | Which shape is a circle? | 10 | A | B | C | D | E | F | G | <input type="checkbox"/> |



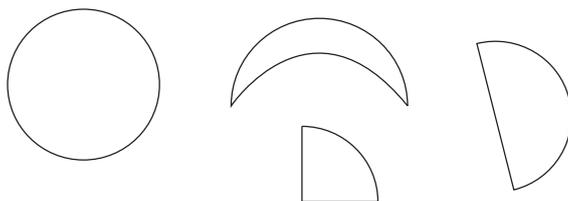
Minimum mark	8	6	5	3	
Circle grade	A	B	C	D	E

_____ / 10

17 2-D and 3-D shapes – 2

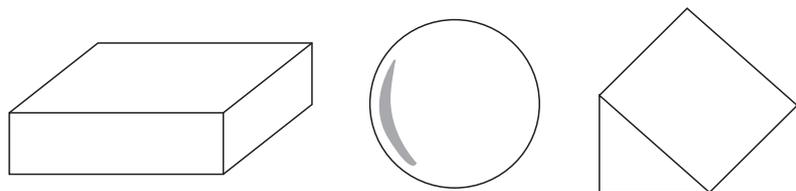


The name of this group of shapes is "Shapes with curves".



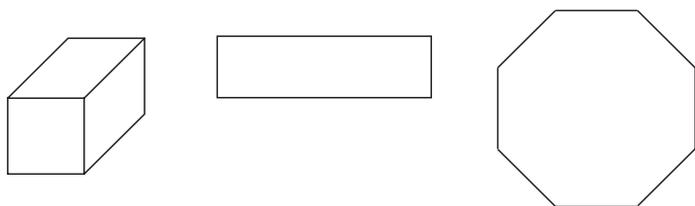
Give names to these groups of shapes:

1



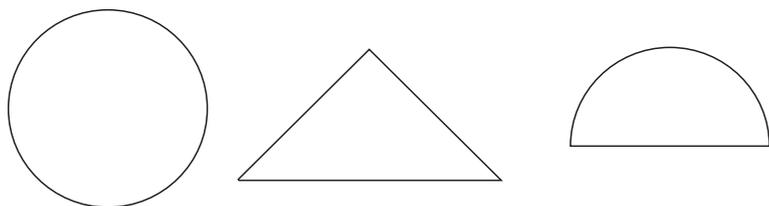
1.....

2



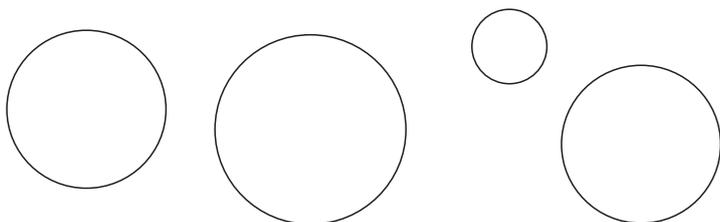
2.....

3



3.....

4



4.....



Minimum mark
Circle grade

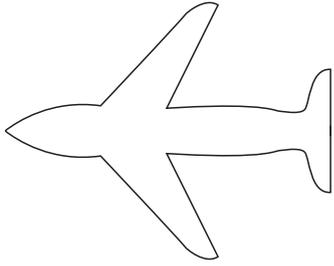
4	3	2	1	
A	B	C	D	E

4

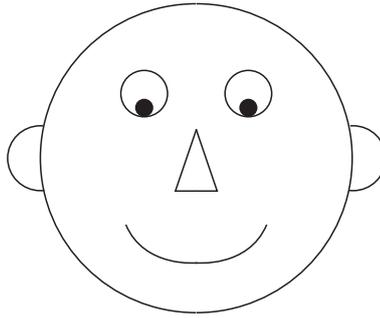
18 Reflective symmetry – 1

Draw lines of symmetry on these pictures. (Some pictures have more than one line.)

1



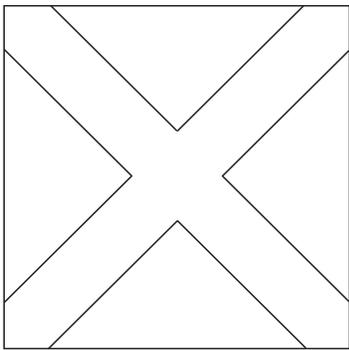
2



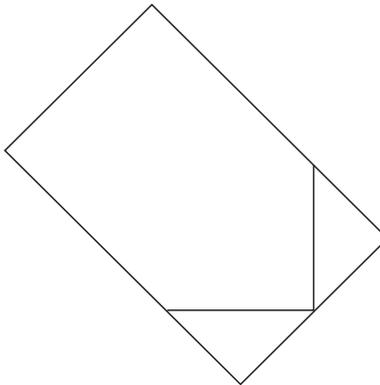
1

2

3



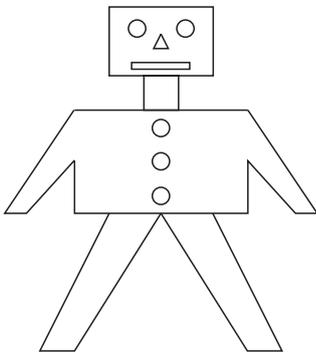
4



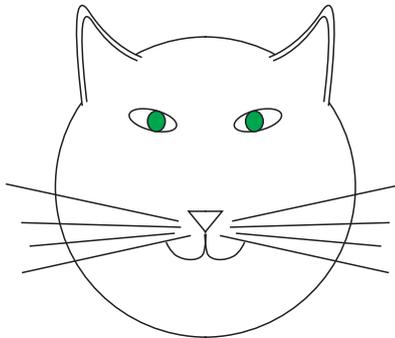
3

4

5



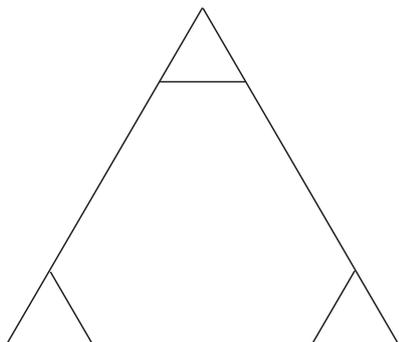
6



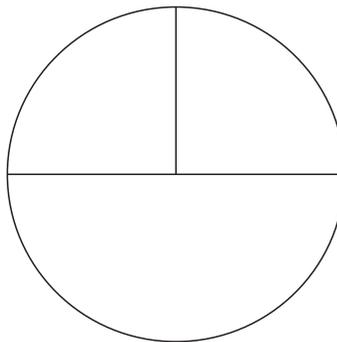
5

6

7



8



7

8

Minimum mark

7	5	4	2	
A	B	C	D	E

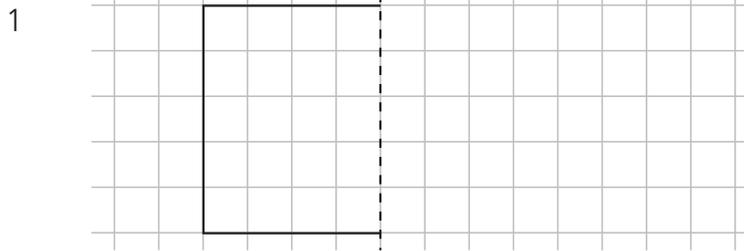
Circle grade

8

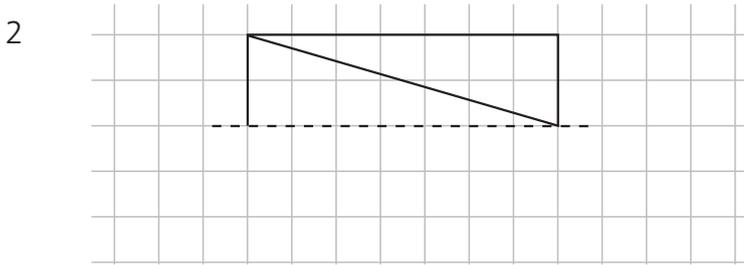
19 Reflective symmetry – 2



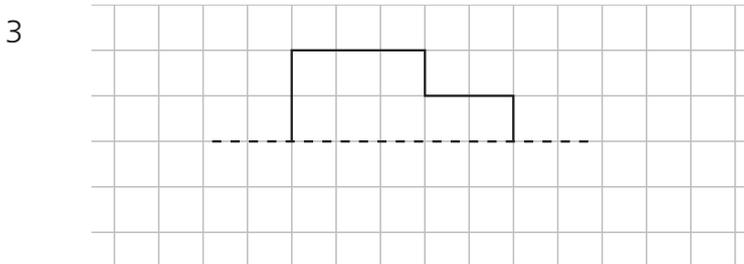
The dotted lines are lines of symmetry. Complete the shapes.



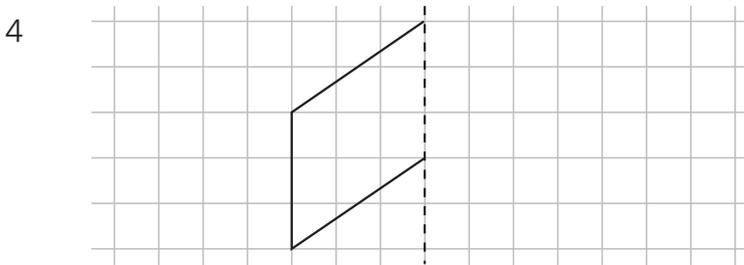
1



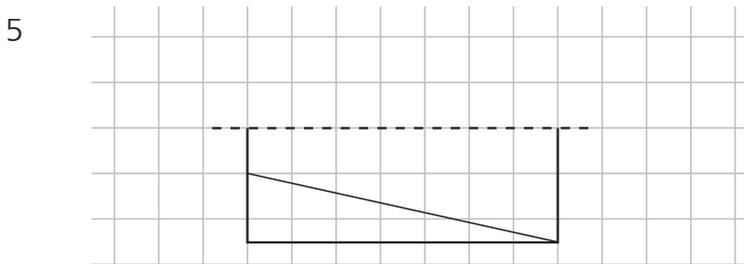
2



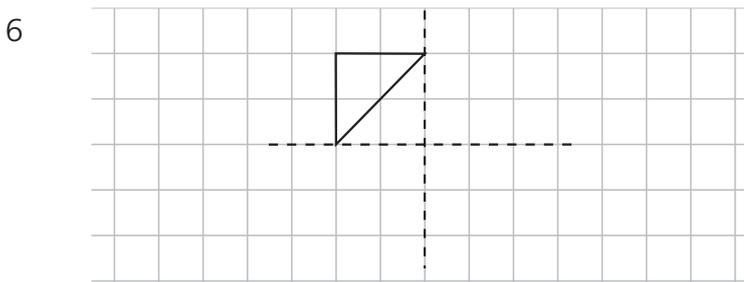
3



4



5



6



Minimum mark

7	5	4	2	
A	B	C	D	E

Circle grade

8

20 Measures – 1

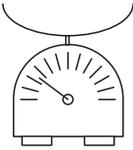
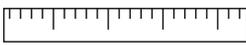
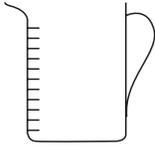
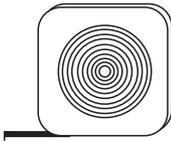
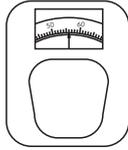


Here are some measures:

Hour Metre Litre Kilogram

- | | | | |
|---|---|--------|--------------------------|
| 1 | Which would you use to measure length? | 1..... | <input type="checkbox"/> |
| 2 | Which would you use to measure weight (mass)? | 2..... | <input type="checkbox"/> |
| 3 | Which would you use to measure capacity?
(Capacity means the amount a container holds) | 3..... | <input type="checkbox"/> |
| 4 | Which would you use to measure time? | 4..... | <input type="checkbox"/> |
| 5 | Which would you use to measure height? | 5..... | <input type="checkbox"/> |

Here are some measuring instruments:

			
A Kitchen scales	B Clock	C Ruler	D Measuring jug
			
E Tape measure	F Thermometer	G Stopwatch	H Bathroom scales

Using the correct letter, which instruments would you use to measure:

- | | | | |
|----|---|---------|--------------------------|
| 6 | The time taken to thread a needle? | 6..... | <input type="checkbox"/> |
| 7 | The weight of a potato? | 7..... | <input type="checkbox"/> |
| 8 | Your weight? | 8..... | <input type="checkbox"/> |
| 9 | The amount of milk needed to make a cake? | 9..... | <input type="checkbox"/> |
| 10 | The length of a film? | 10..... | <input type="checkbox"/> |
| 11 | Your waist size? | 11..... | <input type="checkbox"/> |
| 12 | The length of your pen? | 12..... | <input type="checkbox"/> |
| 13 | The temperature on a hot day? | 13..... | <input type="checkbox"/> |

Look at these units. Which is the odd one out?

- | | | | |
|----|--|---------|--------------------------|
| 14 | Metres, millilitres, centimetres, kilometres | 14..... | <input type="checkbox"/> |
| 15 | Grams, tonnes, kilograms, litres | 15..... | <input type="checkbox"/> |
| 16 | Millilitres, centilitres, kilometres, litres | 16..... | <input type="checkbox"/> |



Minimum mark	13	11	8	5	
Circle grade	A	B	C	D	E

21 Measures – 2

--

Here are some lengths:

- | | | | |
|----------|---------------|--------------|---------------|
| 8 metres | 3 millimetres | 2 kilometres | 5 centimetres |
|----------|---------------|--------------|---------------|

- 1 Which is the longest length? 1.....
- 2 Which is the shortest length? 2.....

Here are some weights (masses):

- | | | |
|-------------|----------|---------|
| 3 kilograms | 3 tonnes | 3 grams |
|-------------|----------|---------|

- 3 Which is the heaviest? 3.....
- 4 Which is the lightest? 4.....

Here are some units:

- | | | | | |
|-------------|-------------|-------------|-----------|-------------|
| Centimetres | Grams | Millimetres | Litres | Tonnes |
| Kilometres | Millimetres | Metres | Kilograms | Centilitres |

- 5 Which unit would you use to measure your weight (mass)? 5.....
- 6 Which unit would you use to measure the length of your classroom? 6.....
- 7 Which unit would you use to measure the weight of a ship? 7.....
- 8 Which unit would you use to measure the distance from Britain to Australia? 8.....
- 9 Which unit would you use to measure the length of a flea? 9.....
- 10 Which unit would you use to measure the amount of water in a tank? 10.....
- 11 Which unit would you use to measure the weight of your pen? 11.....
- 12 Which unit would you use to measure the length of your pen? 12.....

--

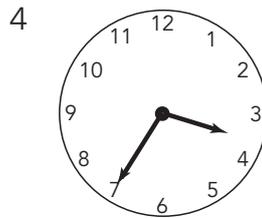
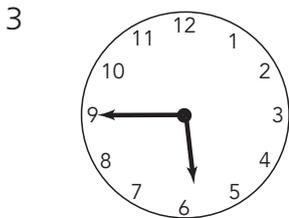
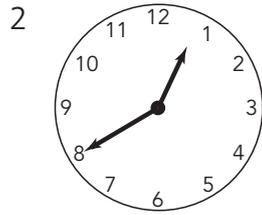
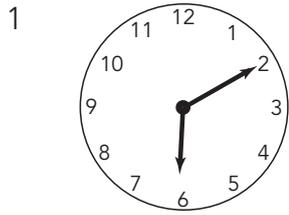
Minimum mark	10	8	6	4	
Circle grade	A	B	C	D	E

_____ 12

22 Time – 2



What time is shown by these clocks?



1

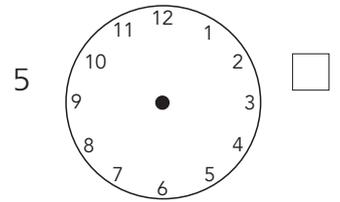
2

3

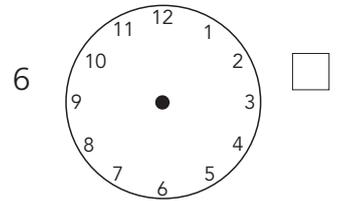
4

Show these times on the clock faces:

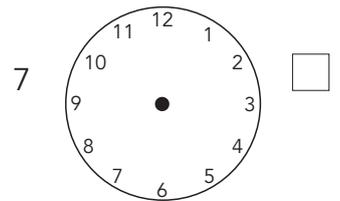
5 Ten to five



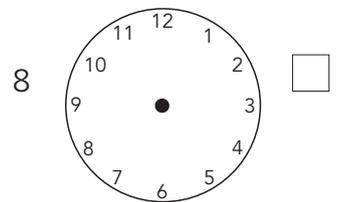
6 Quarter past ten



7 Five past four



8 Twenty-five to twelve



Write these times using the twenty-four hour clock:

9 7:35 am

9

10 3:20 pm

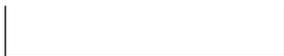
10

11 11:45 pm

11

12 10:05 am

12



Minimum mark	10	8	6	4	
Circle grade	A	B	C	D	E

_____ / 12

23 Time – 2



Look at this incomplete train timetable:

	Train 1	Train 2	Train 3	Train 4	Train 5
Aylesford depart	07:10	08:30	09:30	10:20	
Bedham depart	07:50	09:10	10:10		11:30

- 1 Train 3 leaves Aylesford at 09:30.
What time does it arrive in Bedham? 1.....
- 2 How long does the journey from Aylesford to
Bedham take? 2.....
- 3 I arrive at Aylesford at 09:10. What time should
I arrive at Bedham? 3.....
- 4 Train 4 leaves Aylesford at 10:20. What time
should it arrive at Bedham? 4.....
- 5 Train 5 arrives in Bedham at 11:30. What time
did it leave Aylesford? 5.....
- 6 I must arrive in Bedham by 09:30. What is the
latest train I can catch from Aylesford? 6.....

Write these times using the 12-hour clock.

You must state am or pm.

- 7 Quarter to nine in the morning. 7.....
- 8 Quarter to nine at night. 8.....
- 9 Twenty past three in the afternoon. 9.....
- 10 Twenty-five to six in the morning. 10.....
- 11 Six o'clock at night. 11.....
- 12 Ten past ten in the morning. 12.....
- 13 08:30 13.....
- 14 17:55 14.....
- 15 16:40 15.....
- 16 10:55 16.....



Minimum mark	13	11	8	5	
Circle grade	A	B	C	D	E

24 Tables and lists – 1



This is a price list showing what a tailor charges for making trousers. Prices are in £'s.

Waist size cm \ Leg length cm	75	80	85	90	95
70	40	43	46	49	52
75	41	44	47	50	53
80	42	45	48	51	54

What is the price of the following trousers?

- 1 Leg length 70 cm, waist 90 cm 1 £
- 2 Leg length 70 cm, waist 85 cm 2 £
- 3 Leg length 75 cm, waist 90 cm 3 £
- 4 Leg length 80 cm, waist 95 cm 4 £
- 5 Leg length 75 cm, waist 80 cm 5 £
- 6 Leg length 80 cm, waist 85 cm 6 £
- 7 Leg length 70 cm, waist 75 cm 7 £
- 8 Leg length 80 cm, waist 80 cm 8 £

The tailor charges Mr Bennett £42.

- 9 What is the waist size? 9
- 10 What is the leg length? 10

The tailor charges Mr Barnett £43.

- 11 What is the waist size? 11
- 12 What is the leg length? 12

The tailor charges Mr Watson £51.

- 13 What is the waist size? 13
- 14 What is the leg length? 14

The tailor charges Mr Trent £53.

- 15 What is the waist size? 15
- 16 What is the leg length? 16

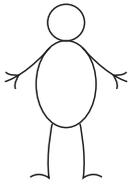


Minimum mark	13	11	8	5	
Circle grade	A	B	C	D	E

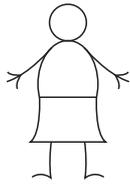
_____ 16

25 Tables and lists – 2

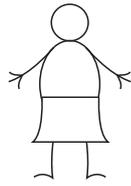
1 Here are some people. Their weight and height are shown:



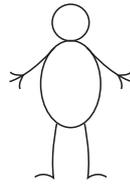
John
80 kg
1.72 m



Sarah
68 kg
1.43 m



Paula
66 kg
1.53 m



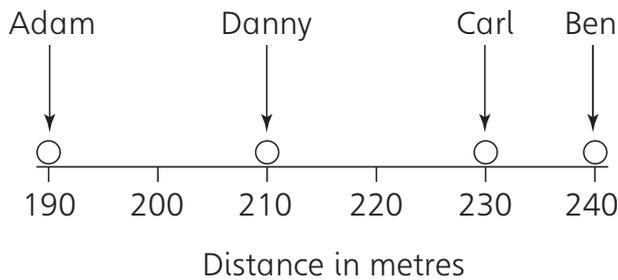
Sam
64 kg
1.63 m

Name	Weight
John	
Paula	
Sam	
Sarah	

Record their weight and height in these tables.

Name	Height
John	
Paula	
Sam	
Sarah	

2 This picture shows how far four golfers have hit their drives:



Name	Distance
Adam	
Ben	
Carl	
Danny	

Record this information in the table.

3 This table shows the weight of four boys:

Name	Weight
Shaun	60
Luke	70
Oliver	62
Simon	55

The pictures shows the weight of these boys. Write their names.

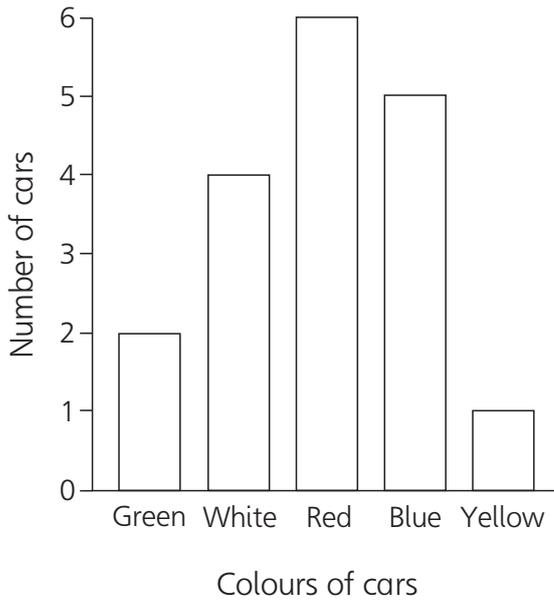
	Name
70 kg
55 kg
60 kg
62 kg

Minimum mark

13	11	8	5	
A	B	C	D	E

Circle grade

26 Bar charts – 1

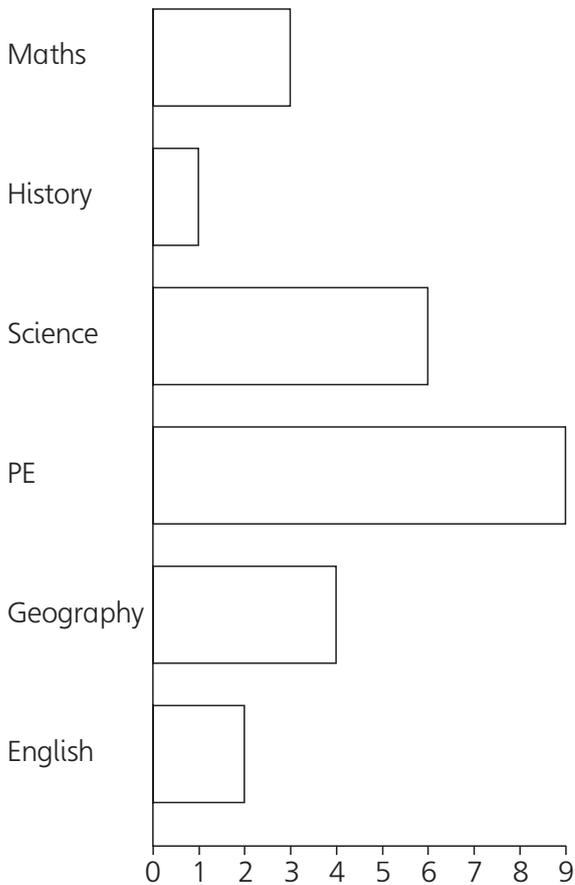


This bar chart shows the colours of cars in a car park:

- 1 How many cars were green?
- 2 How many cars were yellow?
- 3 How many cars were red?
- 4 How many cars were in the car park?

Complete these sentences:

- 5 5 cars were
- 6 4 cars were
- 7 What was the most popular colour?
- 8 What was the least popular colour?



This bar chart shows the favourite lessons of pupils in a class:

- 9 How many pupils chose history?
- 10 How many pupils chose maths?
- 11 How many pupils chose PE?
- 12 How many pupils chose English?

Complete these sentences to show the lesson:

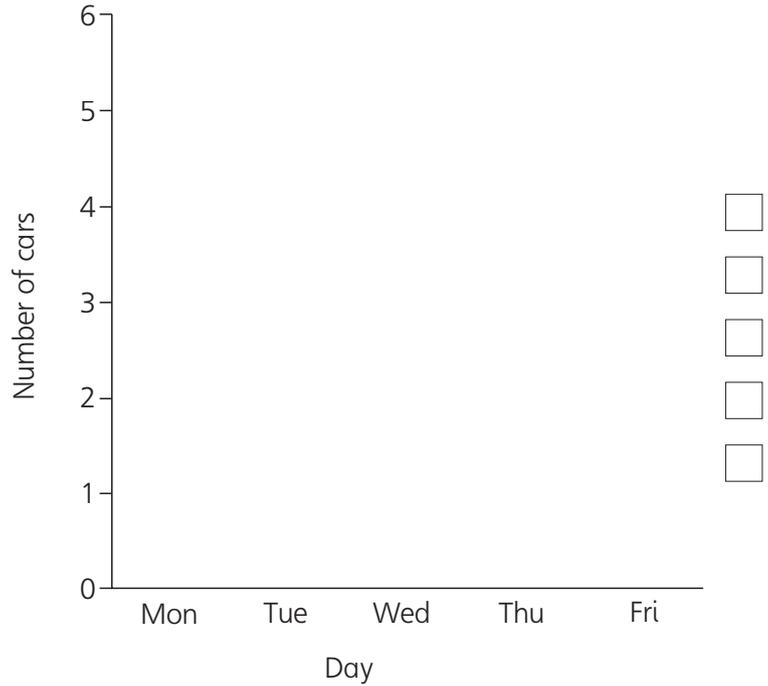
- 13 6 pupils chose
- 14 4 pupils chose
- 15 Which was the favourite subject?
- 16 How many pupils were in the class?

Minimum mark	13	11	8	5	
Circle grade	A	B	C	D	E

27 Bar charts – 2

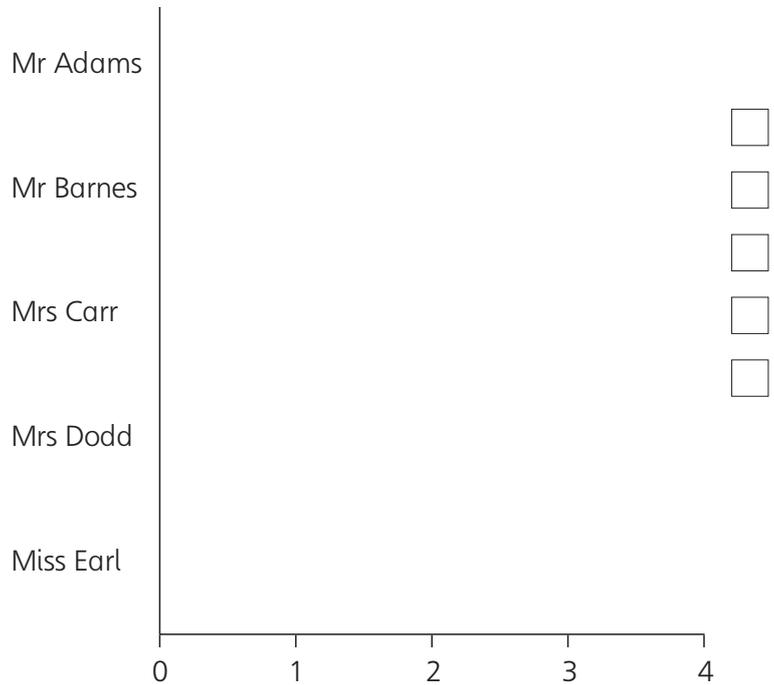
1 This table shows the number of cars using a car park. Complete the bar graph to show this information:

Day	Number of cars
Monday	3
Tuesday	5
Wednesday	6
Thursday	2
Friday	6



2 This table shows the number of televisions owned by these people:

Name	Number of TVs
Mr Adams	3
Mr Barnes	0
Mrs Carr	4
Mrs Dodd	1
Miss Earl	2



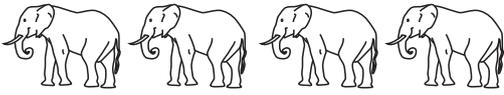
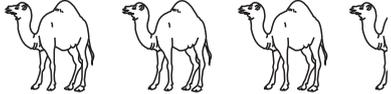
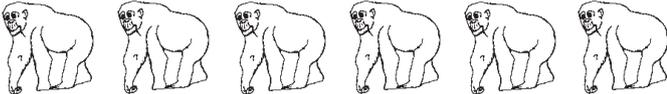
Minimum mark
Circle grade

8	6	5	3	
A	B	C	D	E

10

28 Pictograms – 1

This pictogram shows the numbers of animals in a safari park.
Each picture of an animal represents 10 animals:

Elephants	
Camels	
Monkeys	
Lions	
Zebras	
Giraffes	

- 1 How many monkeys are in the safari park? 1.....
- 2 How many elephants are in the safari park? 2.....
- 3 How many giraffes are in the safari park? 3.....
- 4 How many camels are in the safari park? 4.....
- 5 How many zebras are in the safari park? 5.....
- 6 How many lions are in the safari park? 6.....

The safari park had a reptile and insect house. This contained the following animals. Show this information in a pictogram:

- 7 30 snakes. This is a snake: 
- 8 25 spiders. This is a spider: 
- 9 12 crocodiles. This is a crocodile: 
- 10 17 turtles. This is a turtle: 

Snakes		<input type="checkbox"/>
Spiders		<input type="checkbox"/>
Crocodiles		<input type="checkbox"/>
Turtles		<input type="checkbox"/>

Minimum mark	8	6	5	3	
Circle grade	A	B	C	D	E

29 Pictograms – 2

This pictogram shows the number of people who had lunch in a cafe.



Represents 100 people

January	
February	
March	
April	
May	
June	
July	
August	

- 1 How many people had lunch in January?
- 2 How many people had lunch in May?
- 3 How many people had lunch in April?
- 4 How many people had lunch in July?
- 5 How many people had lunch in February?
- 6 How many people had lunch in August?
- 7 How many people had lunch in March?
- 8 How many people had lunch in June?

Complete the pictogram to show the following:

- 9 200 people had lunch in September
- 10 150 people had lunch in October
- 11 92 people had lunch in November
- 12 210 people had lunch in December

September		<input type="checkbox"/>
October		<input type="checkbox"/>
November		<input type="checkbox"/>
December		<input type="checkbox"/>

Minimum mark	10	8	6	4	
Circle grade	A	B	C	D	E

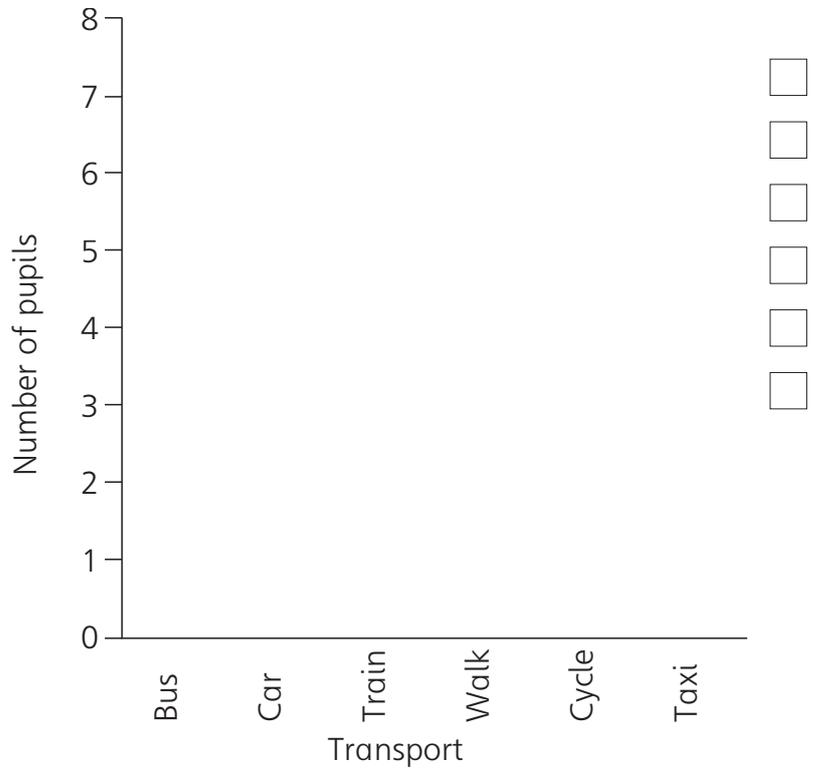
30 Pictograms, bar charts and tables



This table shows how pupils in a class arrived at school.

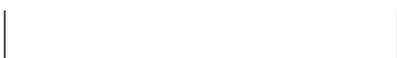
a Complete the bar chart to show this information:

Transport	Number of pupils
Bus	5
Car	3
Train	2
Walk	8
Cycle	4
Taxi	1



Using  to represent 2 pupils, complete the pictogram.

Bus		<input type="checkbox"/>
Car		<input type="checkbox"/>
Train		<input type="checkbox"/>
Walk		<input type="checkbox"/>
Cycle		<input type="checkbox"/>
Taxi		<input type="checkbox"/>



Minimum mark	10	8	6	4	
Circle grade	A	B	C	D	E

12