

Paper 10

Test time: 50 minutes

- 1 Write these numbers in order of size, starting with the largest. (1)
- 7.07 0.71 1.7 7.1 17.1
- _____

- 2 Circle all the numbers in the list below that are between 4.4 and 4.7 (2)
- $4\frac{3}{7}$ $4\frac{1}{2}$ $4\frac{3}{4}$ $4\frac{2}{3}$ $4\frac{4}{9}$

- 3 These two years are written in Roman numerals. (1)
- MMXXXV and MML
- How many years are there between these two years? _____ (3)

- 4 Whilst Mike was based at Vostok Station, Antarctica, the temperature ranged from -18°C to -72°C . (1)
- What is the difference between these two temperatures? _____ (1)

- 5 Circle all the amounts that can be made with four coins. (1)
- 68p 87p 92p £1.18 £1.21

- 6 The average distance between the moon and the Earth is 238 857 miles. (1)
- Round this distance to the nearest 10 000 miles. _____ (1)

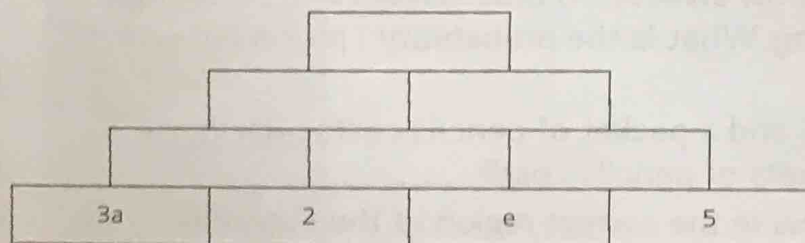
- 7 How many of the numbers below are multiples of 7? _____ (1)
- 28 44 84 107 112 161

- 8 Mark, Jed and Rick are running a race. Mark finishes in 145 seconds. Jed finishes 18 seconds after Mark. Rick finishes 11 seconds before Jed. (2)
- What is Rick's finishing time in minutes and seconds? _____

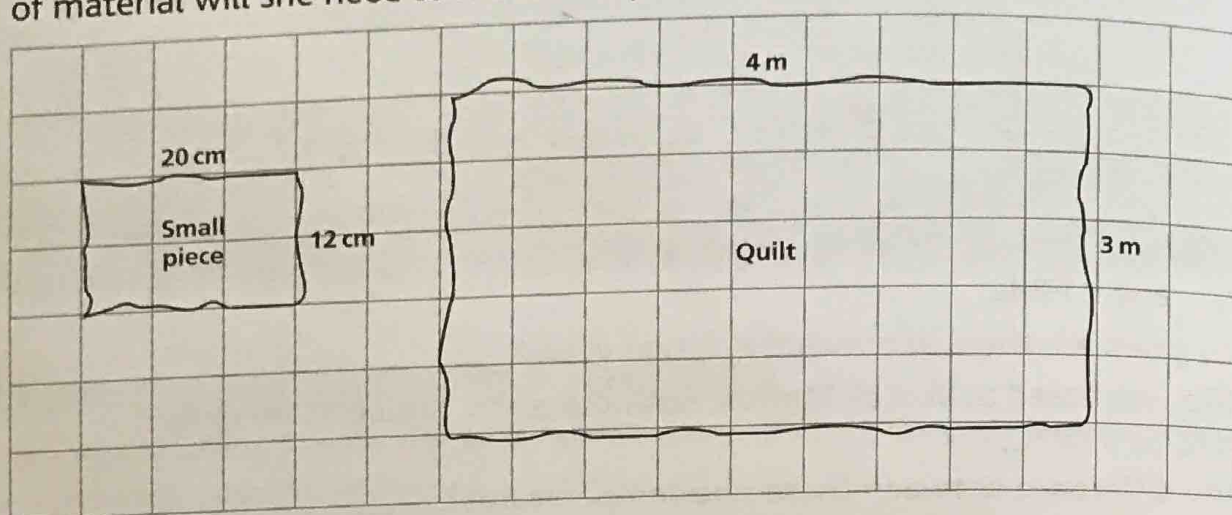
- 9 Zoe gets home from school at 3:45 in the afternoon. She gets changed, which takes 5 minutes, and watches television for 20 minutes. She then walks for 15 minutes to reach her gymnastics lesson. The lesson lasts 1 hour. She then walks straight home. (2)
- At what time does she get home from her gymnastics club? _____

- 10 If I quadruple a number and then add 7, I get the same answer as when I multiply the number by 5 (3)
- What is the original number? _____

- 11 In this pyramid, the expression in each brick is formed by adding the terms in the two bricks below it. Complete this pyramid and write down the expression in the top brick. (3)



- 12 Jenny is making a quilt out of small pieces of material. The diagram shows the dimensions of the quilt and the small pieces of material. How many small pieces of material will she need to make the quilt? _____



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- 13 Complete the square so that the numbers in each row, column and diagonal add up to 15. Each cell must contain one number between 1 and 9 and each number can be used only once. (2)

2		4
	1	

- 14 Joshua and Darren share their bag of 28 sweets in the ratio 4:3. How many more sweets does Joshua get than Darren? _____ (2)
- 15 Jamie is buying a new table. The full price is £670, but it is reduced in the New Year sale by 20%. How much will Jamie pay for the table in the New Year sale? _____ (3)
- 16 Kathryn drives a different distance each day for four days. The distances are: 47 km, 58 km, 28 km and 47 km. If she uses 1 litre of fuel for every 15 km she drives, how much fuel does she use each day, on average, over the four days? _____ (3)
- 17 An adult ticket to watch our local football team costs £4. A child ticket is half the price of an adult ticket. What is the total cost for 6 adults and 4 children to watch the local football team? _____ (3)
- 18 A bag contains 60 red sweets, 40 yellow sweets, 70 blue sweets and 30 orange sweets. I pick a sweet without looking. What is the probability I pick a red sweet? _____ (2)
- 19 A packet of felt-tip pens costs £1.15 and a packet of pencils costs 98p. What do 3 packets of felt-tip pens and 2 packets of pencils cost? _____ (3)
- 20 Write each number from the list below in the correct region of the Carroll diagram. (1)

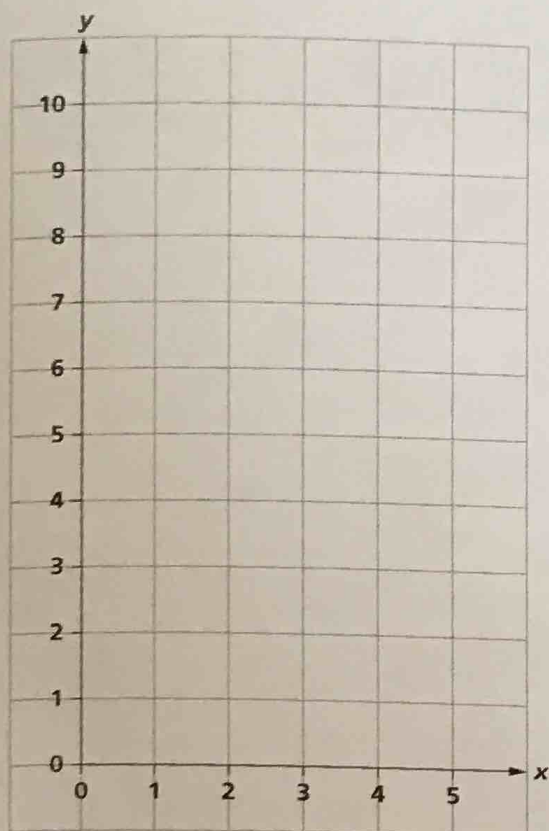
8 41 27 48 21 24 18 17 15

Not a multiple of 3		
Multiple of 3		
	Multiple of 4	Not a multiple of 4

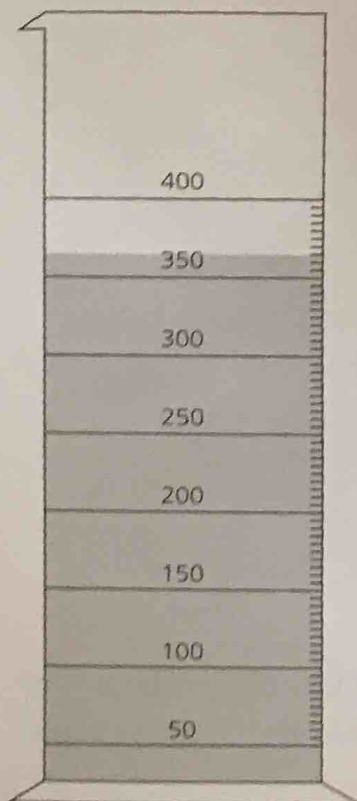
21 $\frac{1}{2} \times 136.48 =$ _____

(1)

- 22 To get from A to B, Ranulph must travel along the line given by the equation $y = 2x - 1$. Plot his route on the co-ordinate grid using values of x from 1 to 5 (1)



- 23 The Makkah Royal Clock Tower Hotel in Saudi Arabia has 120 floors. Aamir is on floor 48. How far up the hotel is he? Write your answer as a fraction in its lowest terms. (1)
- 24 Circle the probability word from the list below that best describes the likelihood that Wednesday will follow Tuesday. (1)
- certain very likely likely even chance unlikely very unlikely impossible
- 25 How many millilitres of liquid are in this container? (1)

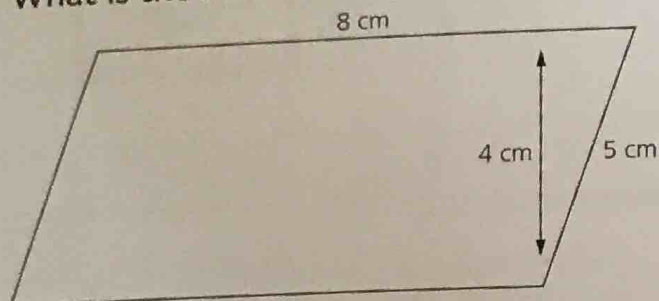


- 26 A 10p coin has a diameter of 2.45 cm. What is the total length of a line of ten 10p coins, as shown in the diagram? _____



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- 27 What is the area of this parallelogram? _____



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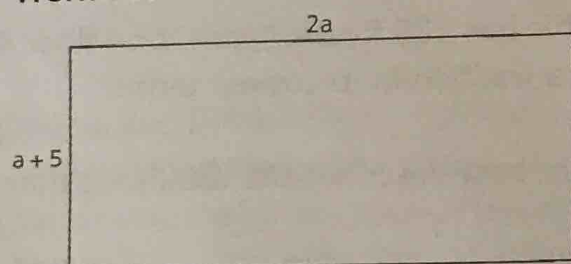
- 28 $870 \div n = 0.87 \times 10$

Work out the value of n ? _____

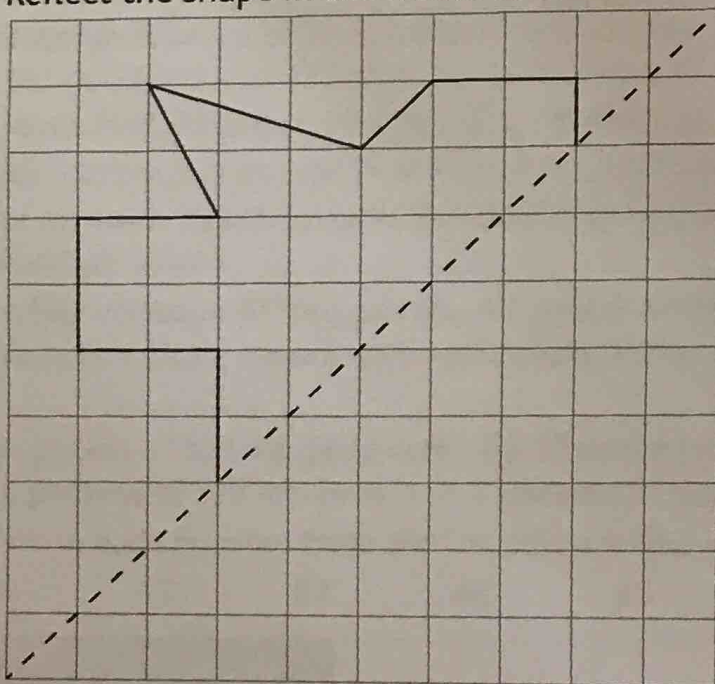
- 29 Use any appropriate method to multiply 2863 by 6 _____

- 30 Divide 8736 by 6 _____

- 31 Work out the area of this rectangle. _____



- 32 Reflect the shape in the mirror line.



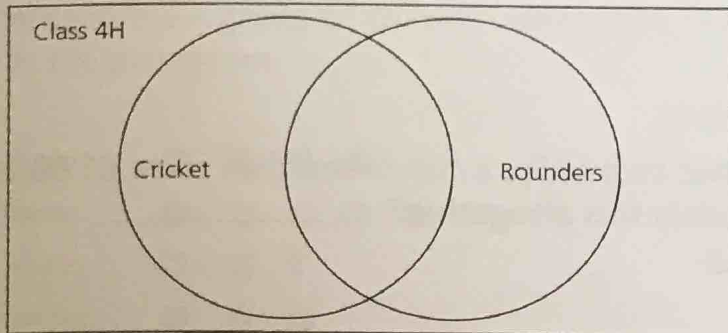
- 33 Tanya has forgotten the combination for her bicycle lock. Her mum remembers that:

- The number is between 150 and 170
- The digits in the number add up to 8
- The number is in the 7 times table

What is the combination? _____

34 Use this information to complete the Venn diagram. (4)

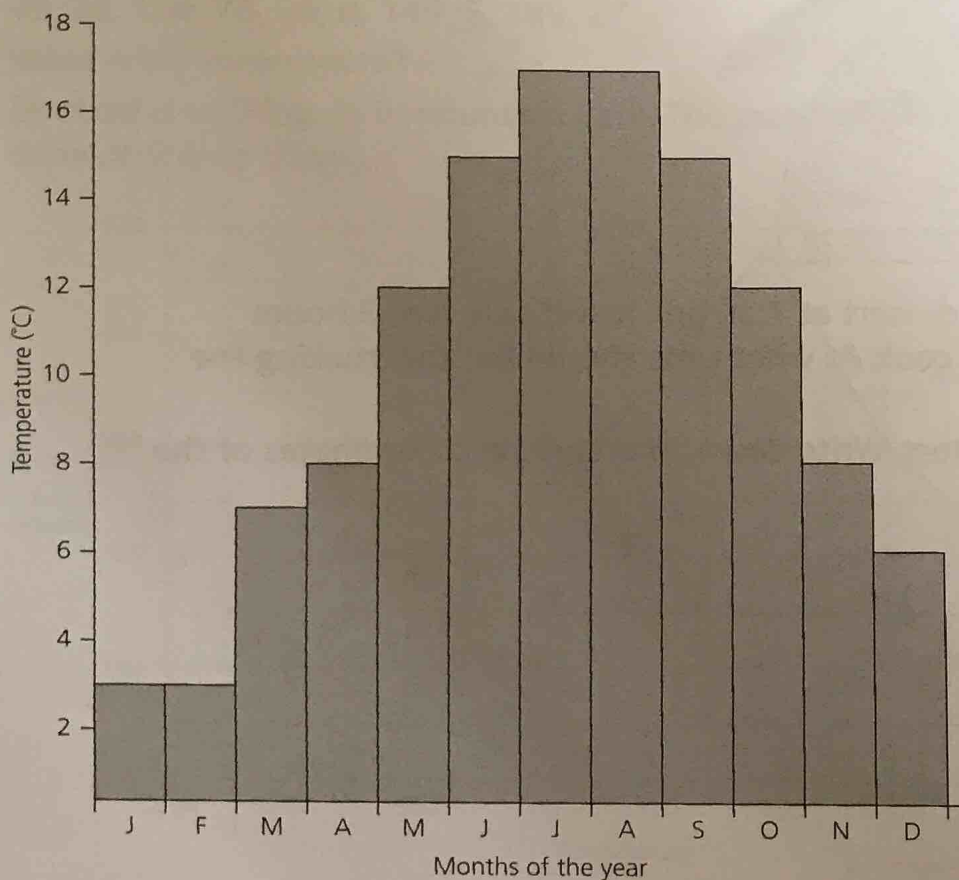
- There are 32 children in class 4H.
- 16 children play cricket only.
- 4 children play cricket and rounders.
- 3 children don't play either sport.



35 What is the missing number in the calculation below? _____ (2)
 $275 + ? + 78 = 568$

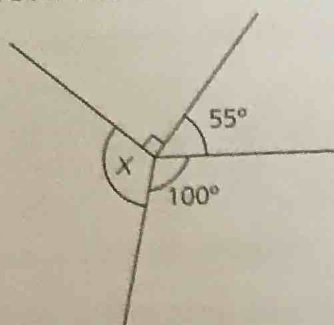
36 It takes Hal 1 hour 20 minutes to drive the 32 miles from London Victoria to Crawley. He drives at a constant speed throughout the journey. How far does he drive in 1 hour? _____ (2)

37 The graph shows the average monthly temperature in Brighton during one year. What is the range of the temperatures? _____ (3)



38 Work out the size of angle x . _____

(2)



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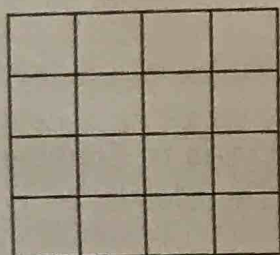
39 Charlotte visits a café and buys a cake that costs 95p, a cup of tea that costs £1.80 and a chocolate bar that costs 68p. How much is this altogether? _____

(1)

40 Use the grid method to work out 45×38

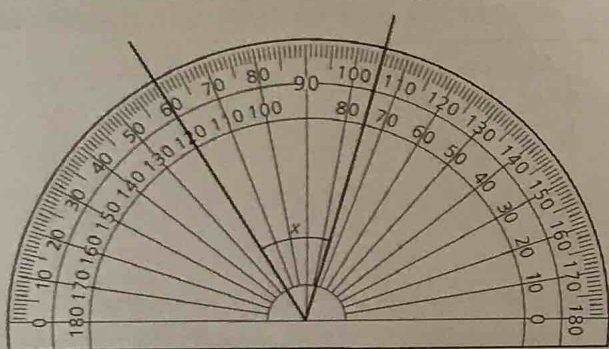
Write your working on the grid below.

(1)



41 What is the size of angle x ? _____

(1)



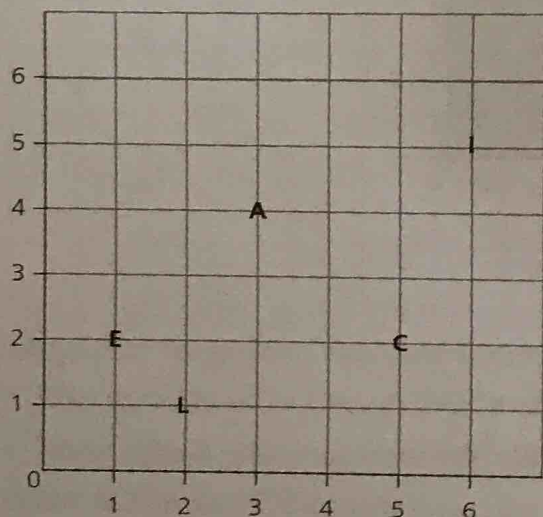
42 Gordon wants to serve his dessert at 7:30 pm. It will take him 2 hours 40 minutes to prepare and cook. At what time should he start making the dessert? _____

(2)

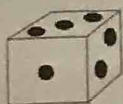
43 The grid contains some letters. Write down, in order, the co-ordinates of the letters that spell ALICE.

(5)

A L I C E
(__, __) (__, __) (__, __) (__, __) (__, __)

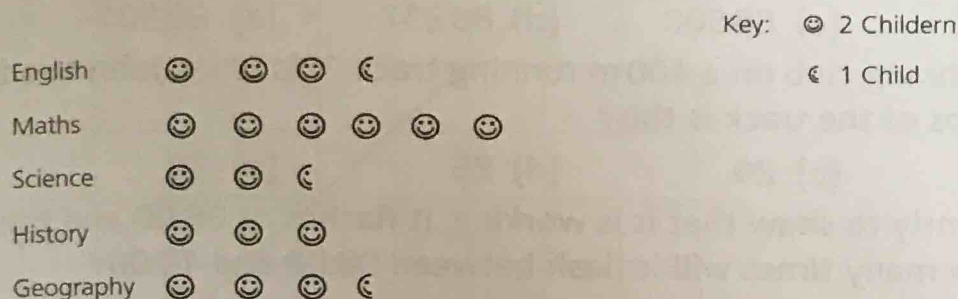


44 What is the chance that when I roll a die, I roll an even number? _____ (2)



45 Joe walks 3.2 km before lunch and 1826 m after lunch. How many metres does he walk in total? _____ (2)

46 Alfie asked a group of children what their favourite subject was. His results are shown in the pictogram.



How many children were in the group? _____ (2)

47 What does F equal in the equation: $6(F - 7) = 6$
 $F =$ _____ (3)

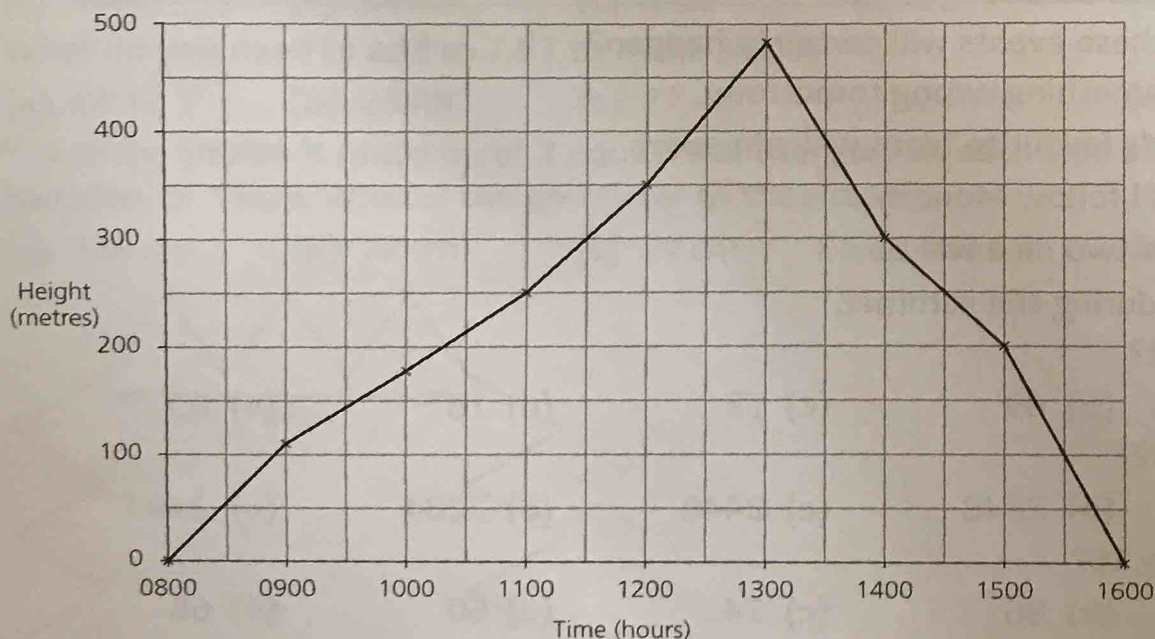
48 What does W equal in the equation: $4(2W + 3) = 4(W + 2)$
 $W =$ _____ (4)

49 These are the batting scores for one cricketer in a test series.

49, 35, 109, 78, 38, 0, 145, 5, 189, 27

What is his mean score? _____ (2)

50 Edmund is walking up a mountain path. The graph shows his ascent (climb up) and descent (climb down).



During which hour does Edmund climb the greatest height? _____ (1)