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Curriculum Assessment Tracking

Mathematics
KS2 Practice Test

Paper 2: Reasoning

Year 6

Pupil name:

SAMPLE

Domain	Number of marks available	Marks awarded
Number	5	
Operations +/-	1	
Operations ×/÷	9	
Fractions	6	
Algebra	2	
Ratio/proportion	1	
Geometry	5	
Measures	3	
Statistics	3	
Total	35	

Author: Amanda Greenhead

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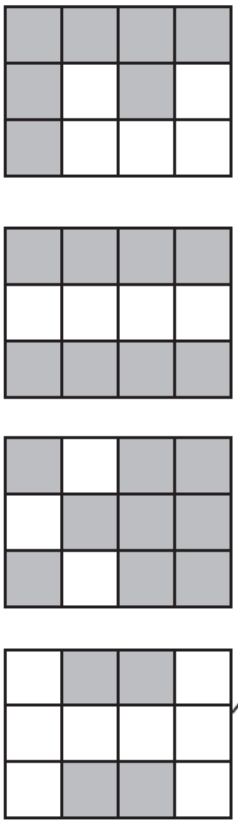
4. Match each shape to its equivalent fraction. One has been done for you.



$\frac{3}{4}$

$\frac{4}{12}$

$\frac{4}{6}$

$\frac{7}{12}$

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5. _____ is 1000 less than 106 722

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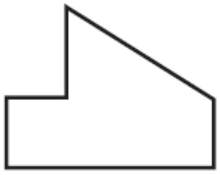
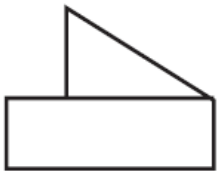
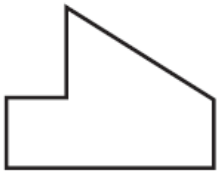
6.



This polygon can be made by joining a rectangle and a triangle:



It can also be made by joining a **trapezium** and a **parallelogram**.
Draw **one** line on the polygon below to show these two shapes.



7. *a, b* and *c* are three different whole numbers.
a + *b* + *c* = 140
a is four times *c.*
b is twice *c.*
Calculate the values of *a, b* and *c.*

a = ☐ *b* = ☐ *c* = ☐

8. What is 326 hours in days and hours?

☐ days ☐ hours

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9. Circle **all** of the factors of 130

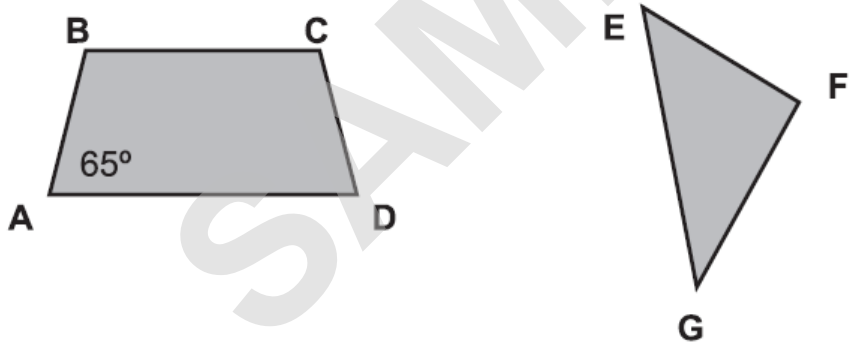
5 12 30 26 2

3 65 260 45

10. Two whole numbers, each between 50 and 70, multiply to make 3402. Write in the missing numbers.

☐ X ☐ = 3402

11. Look at these shapes:



Write whether each statement is **true** or **false**.

AD is parallel to BC _____

EG is perpendicular to FG _____

Angle B = 120° _____

Angle G = 40° _____

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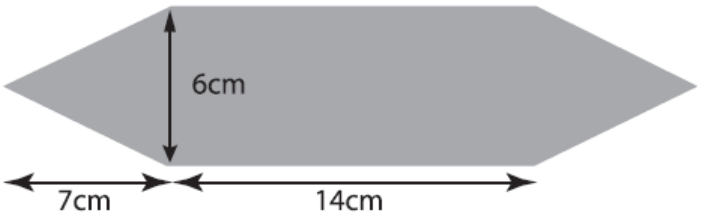
12. Calculate the **area** of this symmetrical shape:



13. Here are some numbers written using Roman numerals:

CIXXXIV MCCL MLXX CXLIII

Two of these numbers complete the calculations below.
Write in the correct answers in Roman numerals

a. XXXIV + CIX =

b. MCCX – CXL =

14. Complete this table:

Number	Rounded to the nearest 1000	Rounded to the nearest 100	Rounded to the nearest 10 000
54 776	55 000		
132 457		132 500	

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15.

Two adults and three children go to the cinema.

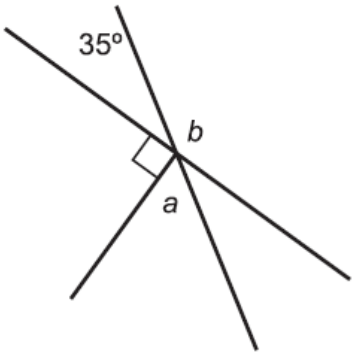
The two adults split the total cost equally between them.

How much does each adult pay?

Show your method

£

16. Calculate angles *a* and *b*.



a = °

b = °

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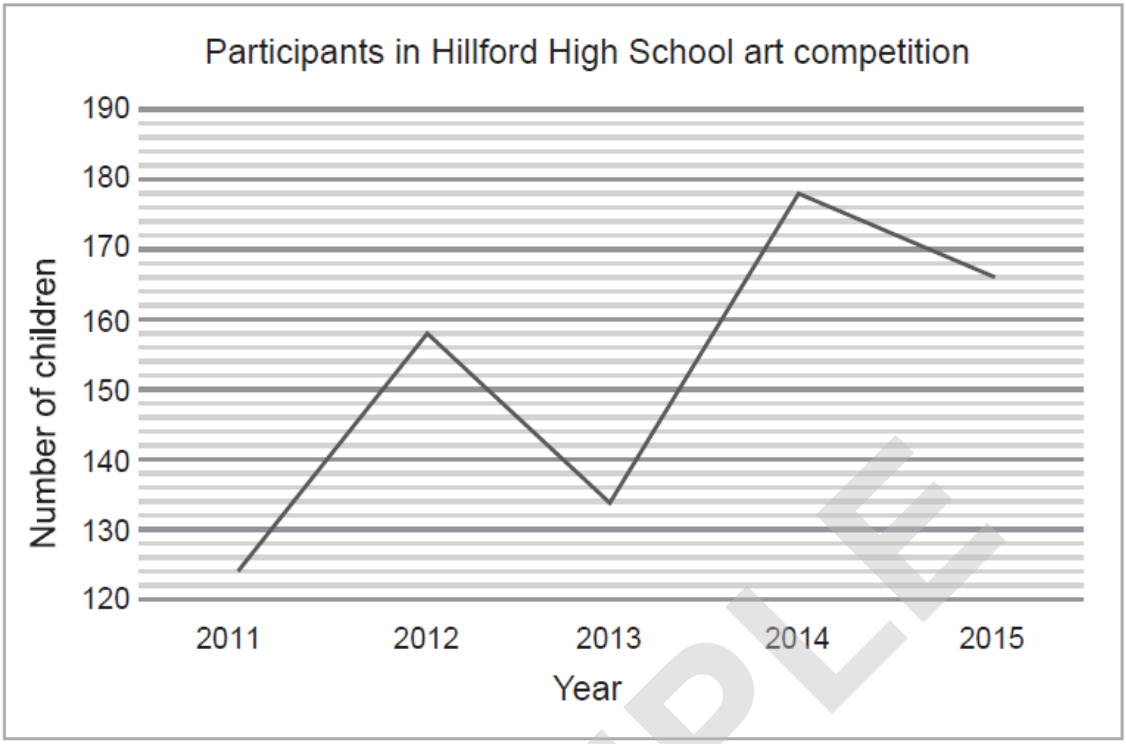
17. This line graph shows how many children at Hillford High School took part in the annual art competition between 2011 and 2015:



a. How many more children took part in the art competition in 2014 than 2013?

b. What was the **mean** number of participants between 2011 and 2015?

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18. Calculate 40% of $\frac{3}{5}$ of £24.50

Show your method

£

19. Tom has £20.

He buys 3kg of carrots at 98p per kilogram, 750g of tomatoes at £1.28 per kilogram and 2 steaks costing £2.69 each.

How much money does he have left?

Show your method

£

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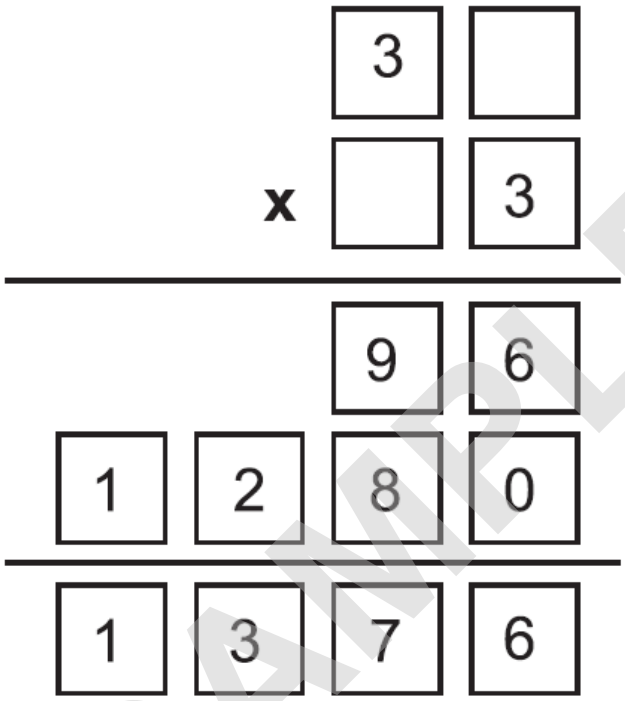
20. 6 cakes cost £3.90
How much do 10 cakes cost?

£

21. Write the two missing digits to make this long multiplication correct.



22. The product of two numbers is 999. The difference between the two numbers is 10. What are the two numbers?

X = 999

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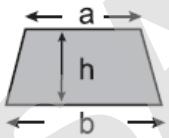
23. A factory makes plastic rulers. Last week the factory made 8500 rulers. They are packed in boxes of 75.
How many boxes were needed for the rulers that were made last week?

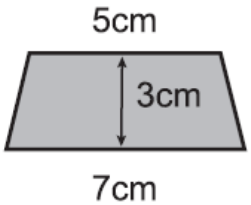
Show your method

24. The formula used to calculate the area of a trapezium is

$\frac{1}{2}$ (a+b) x h



Use the formula to calculate the area of this trapezium:



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