



Year 5 Mid-year Reasoning: Test A

| | |
|-------|--|
| Name | |
| Class | |
| Date | |

1. Write these numbers in order, starting with the **lowest**.

10

-3

-11

4

-5

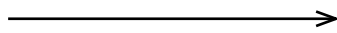
lowest

1 mark

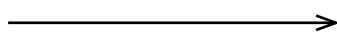
2. Write in the missing numbers.

One has been done for you.

rounded to the nearest
whole number is

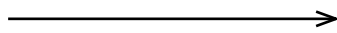


7.02

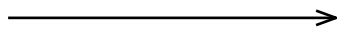


7

3.54



6.45



1 mark

3. Mia can catch different buses to get to school.

The table shows Mia's journey times from leaving home to arriving at school, for each bus.

| Bus number | Leave home | Arrive at school |
|------------|------------|------------------|
| 10 | 8:26 | 8:51 |
| 12 | 8:10 | 8:43 |
| 53 | 7:55 | 8:30 |
| 63 | 8:18 | 8:31 |
| 99 | 8:21 | 8:45 |

How long is Mia's journey if she catches the number 53 bus?

minutes

1 mark

4. Write what the missing numbers could be.

$$\boxed{} \times \boxed{} = 180$$

1 mark

5. Miss Smith had 150 reward stickers at the start of the year.

She gave 8 children 7 stickers each.

She gave 12 children 6 stickers each.

How many stickers **are left**?

Show
your
method

stickers

2 marks

6. Mount Everest is the highest mountain in the world.

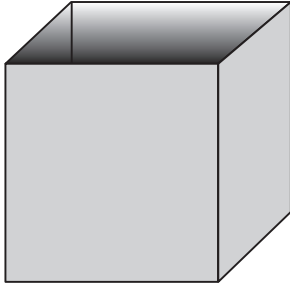
It measures **twenty-nine thousand and twenty-nine** feet.

Write its height in figures.

feet

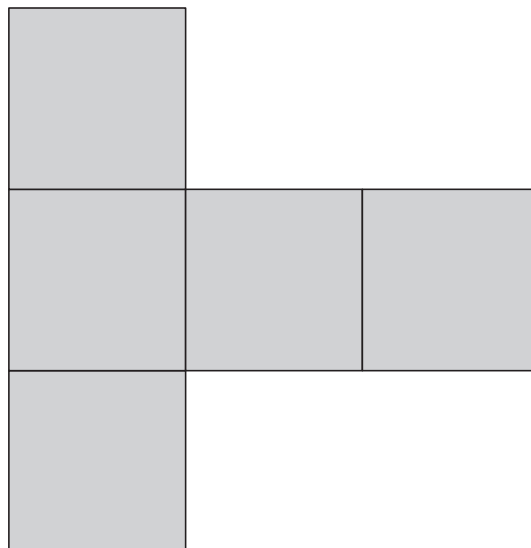
1 mark

7. Here is an **open top** cube.



Here is the net from which it is made.

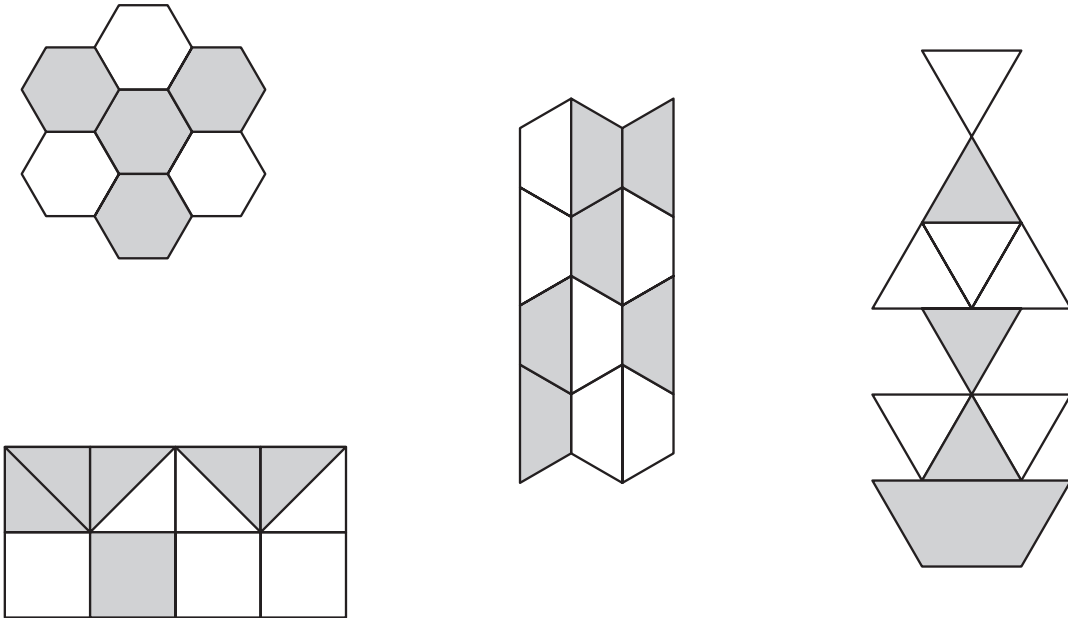
Put a tick (✓) on the square which is its **base**.



1 mark

8. Look at each picture.

Tick (✓) **all** the pictures that have exactly $\frac{1}{2}$ shaded.



2 marks

9. A shelf holds 15 books.
Jason has 56 books.

How many shelves does he need to hold **all** his books?

1 mark

Holly has 7 shelves **full** of books.

How many books does she have altogether?

1 mark

10. Circle the **two** divisions which have an answer of 4 remainder 3

$13 \div 3$

$23 \div 5$

$22 \div 6$

$31 \div 7$

1 mark

11. A juice bottle holds $\frac{3}{4}$ litre when it is full.

How many **millilitres** is this?

Tick **one**.

7.5

75

750

7,500

75,000

1 mark

12. Mia and Holly both buy 24 bags of crisps.

Mia buys 4 packs of 6 bags.



Holly buys 2 packs of 12 bags.



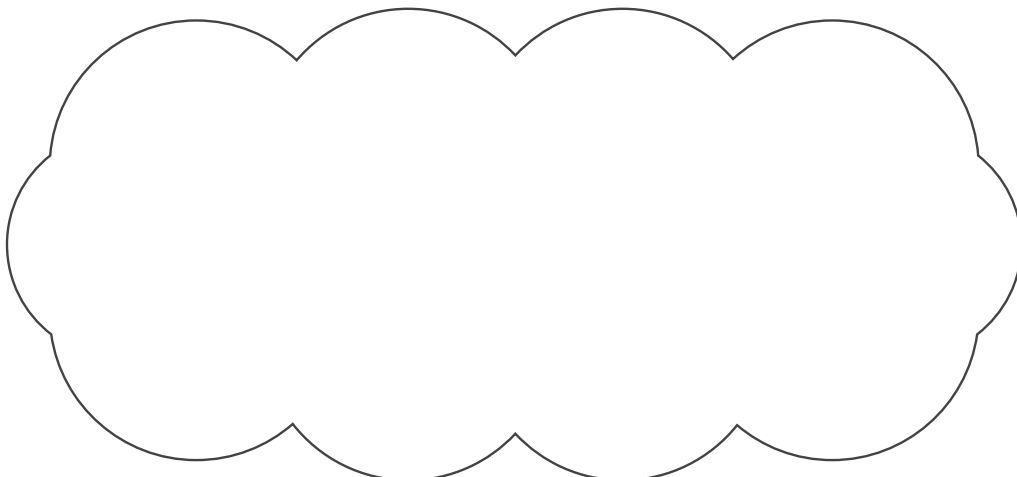
Holly says to Mia, *'You paid 60p more than me.'*

Is Holly correct?

Circle **Yes** or **No**.

Yes / No

Explain how you know.



1 mark

13. Jason lives **1.2 km** from school.
Mia lives **350 m** from school.

How much closer to school is Mia than Jason?

 m

1 mark

14. Tick (✓) **all** of the cards that show **more** than a half.

$$\frac{5}{8}$$

$$60\%$$

$$0.49$$

$$45\%$$

$$0.6$$

1 mark

17. Write the missing numbers to make these sentences correct.

$$\frac{1}{2} \text{ of } 90 \text{ kg} = \boxed{\quad} \text{ kg}$$

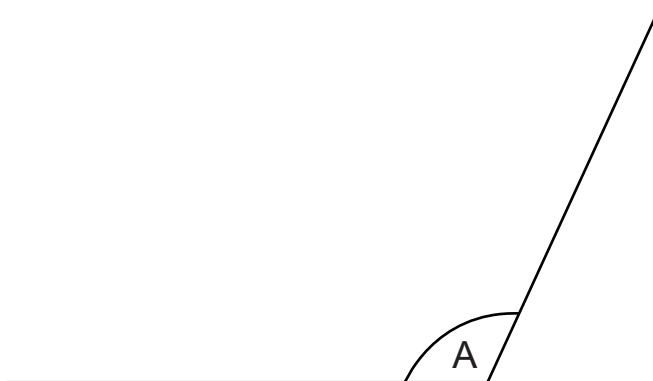
1 mark

$$\frac{1}{8} \text{ of } \boxed{\quad} \text{ kg} = 20 \text{ kg}$$

1 mark

18. Measure **angle A** accurately.

Use a protractor (angle measurer).

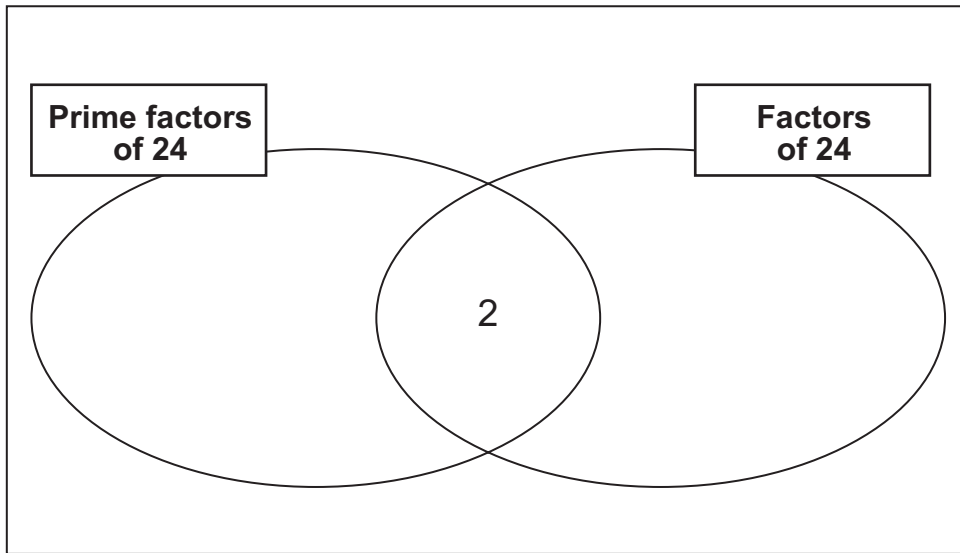


1 mark

19. Write the numbers in the correct places on the Venn diagram.

One has been done for you.

~~2~~ 3 4 6 7



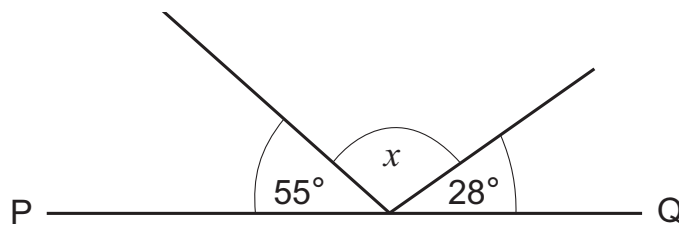
2 marks

20. 6 mangoes cost £8.10

Calculate the cost of **one** mango.

1 mark

21. PQ is a straight line.



Not drawn accurately

Calculate the size of angle x .

Do **not** use a protractor (angle measurer).

1 mark

22. Here are the ingredients to make pizza bases.

| |
|--|
| <p><u>Pizza base</u></p> <p>500 g flour</p> <p>25 g butter</p> <p>350 ml water</p> |
|--|

Jason makes pizza bases using 1500 g of flour.

What weight of butter should he use?

1 mark

23. Mia and Jason each have some money.

Altogether they have £1.30

Mia gives Jason 20p so that they both have the same amount.

How much money did each have at the start?

Show your method

| | | | |
|---------|---|-----------|---|
| Mia had | p | Jason had | p |
|---------|---|-----------|---|

2 marks

24. Circle the **two** fractions that are equivalent to 0.4

$$\frac{40}{100} \quad \frac{1}{40} \quad \frac{1}{4} \quad \frac{4}{10}$$

1 mark

25. Write these numbers in order, starting with the **smallest**.

$$\frac{5}{2}$$

$$\frac{13}{4}$$

$$\frac{25}{8}$$

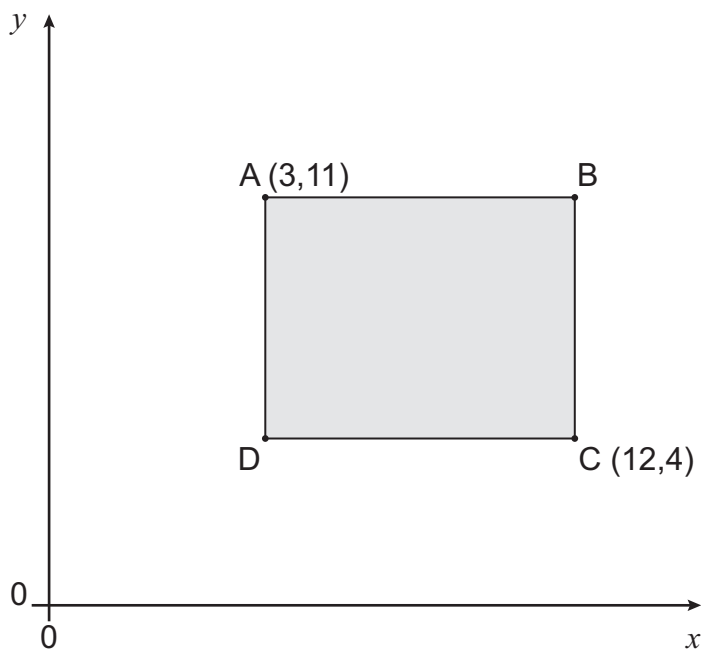
$$2\frac{3}{4}$$

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

smallest

1 mark

26. Here is a shaded rectangle.

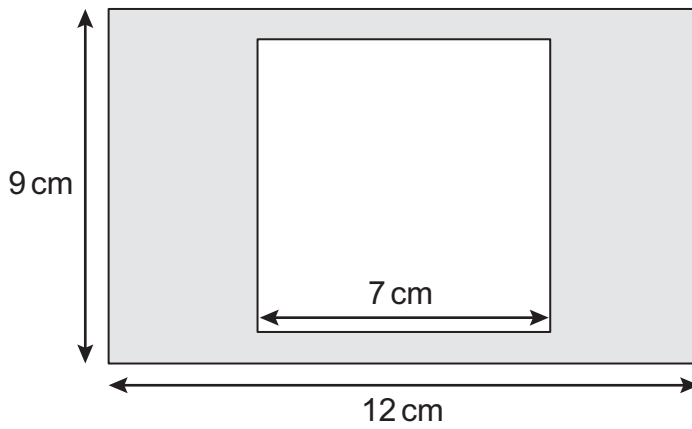


Write the coordinates for point B.

B = (,)

1 mark

27. A square with 7cm sides is cut out of a grey rectangle.



What is the area of the grey shape that is left?

Show your method

cm²

2 marks

