MATHS

KS2 National Curriculum Tests Thresholds

	Mathematics	Reading	GPS
Marks to meet Expected Standard (Scaled Score 100+)	54	27	35
Marks to meet Greater Depth/Higher Standard* (Scaled Score 110+)	93	40	53
Total Marks Possible	110	50	70

Scaled Scores

30 minutes – 40 marks

40 minutes 35 marks

40 minutes 35 marks

% of questions in each of the different areas.

KS2 Maths SATS papers analysis (2024)
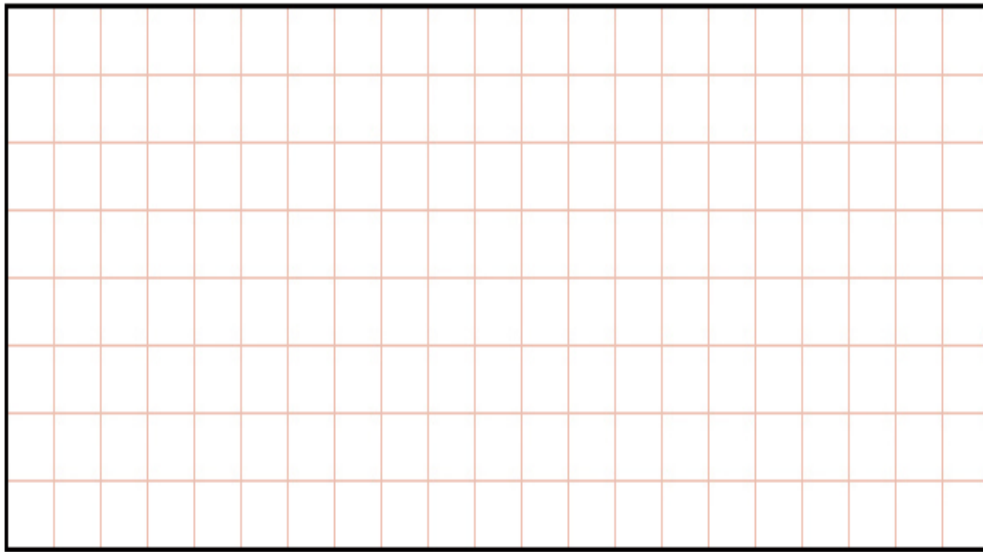Percentage of questions by content domain

Content domain	2018	2019	2022	2023	2024
Number & PV	11	9	9	11	10
Calculations	32	30	38	32	35
FDP	27	24	23	26	26
Ratio & prop	7	8	8	7	6
Algebra	6	6	3	4	3
Measurement	8	9	7	8	8
Shapes	5	7	6	5	7
Pos & direction	2	3	2	2	2
Statistics	2	4	3	4	3

Arithmetic Questions

Arithmetic Paper 1	Percentage of marks for each content domain			
	Number and place value	Calculation	Fractions and decimals	Ratio and proportion
2022	2.5%	55%	30%	12.5%
2023	2.5%	55%	35%	7.5%
2024	2.5%	60%	32.5%	5%

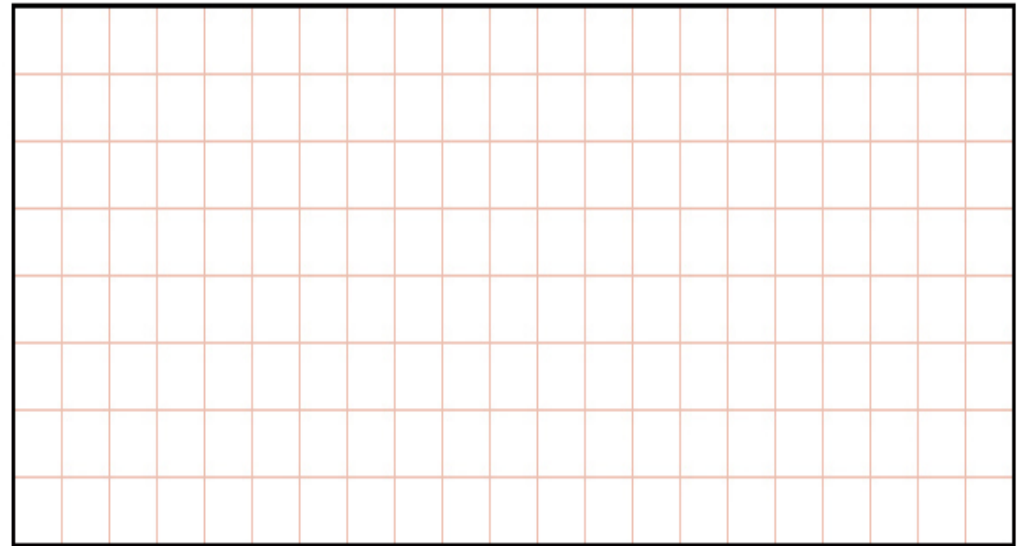# Some of the questions and our approaches

$640 \div 8 =$ ⬚

⬚ $= 630 \div 7$

1 mark

1 m

Tell me what this tells you.
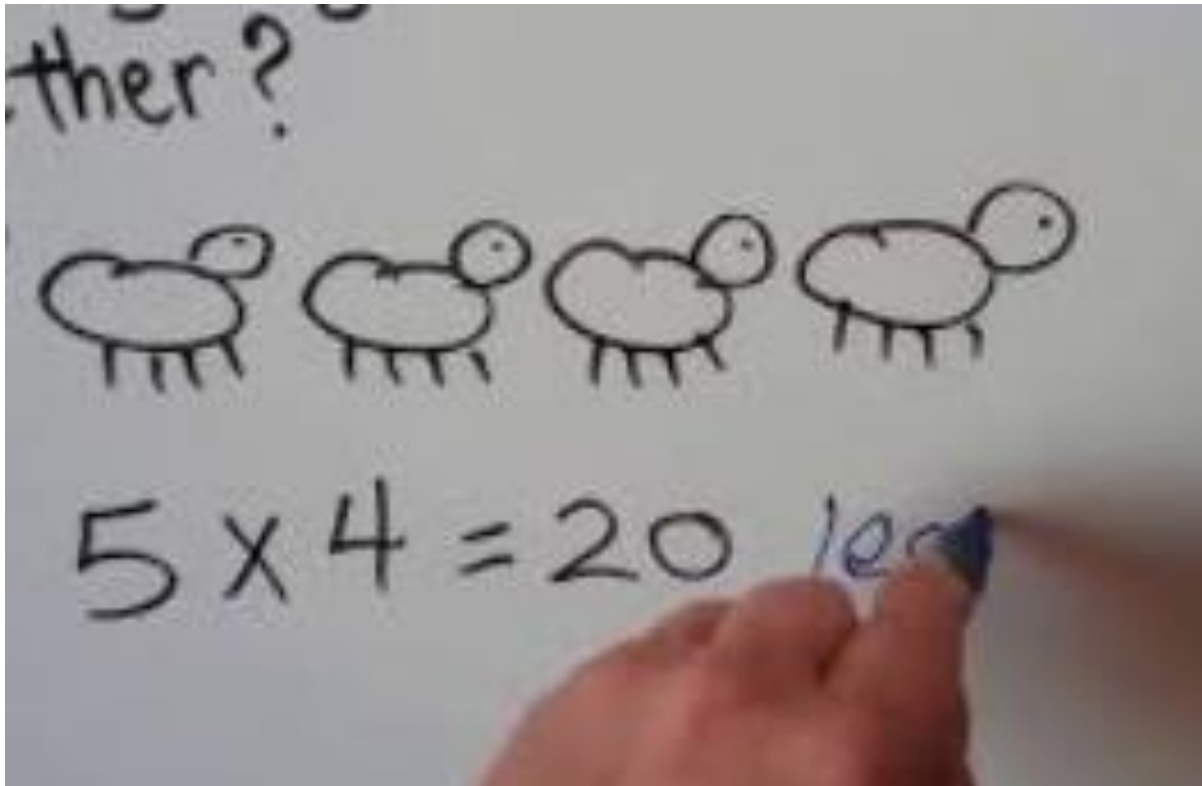

$$60 \times 40 = \boxed{2400}$$

$$\begin{array}{r} 60 \\ \times\, 40 \\ \hline 0\,0 \\ 240 \\ \hline 2400 \end{array}$$

$$41.79 + 25.3 + 25.7 - 41.79$$

How can you show what 5 x 4 is to someone who doesn't understand what it actually means?

Emma buys 5 bunches of flowers.

Each bunch of flowers costs £1.20

£1.20

How much does Emma pay altogether?

£

Emma buys 5 bunches of flowers.

Each bunch of flowers costs £1.20

① £1,20 +
+ £1.20
£2.40

② £2.40   ③ £3.60
+ £1.20   £ + 1.20
3.60   4.80

How much does Emma pay altogether?

④ £4.80
+ 1.20
6.00

⑤ £6.00
+ 1.20
7.20

£ 7.20

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7 4.4
7 6
- 2 6
56

Emma buys 5 bunches of flowers.
Each bunch of flowers costs £1.20

£ 1.20
£ 1.20

2.40

How much does Emma pay altogether?

1.20
1.20
1.20
1.20
1.20
£ 60

1.40
1.40
3.80
+ 1.20

56
5 21 23

21 26
+ 23 23
+ 5
44

4 9
8

£ 60

1
5
£ 1.5
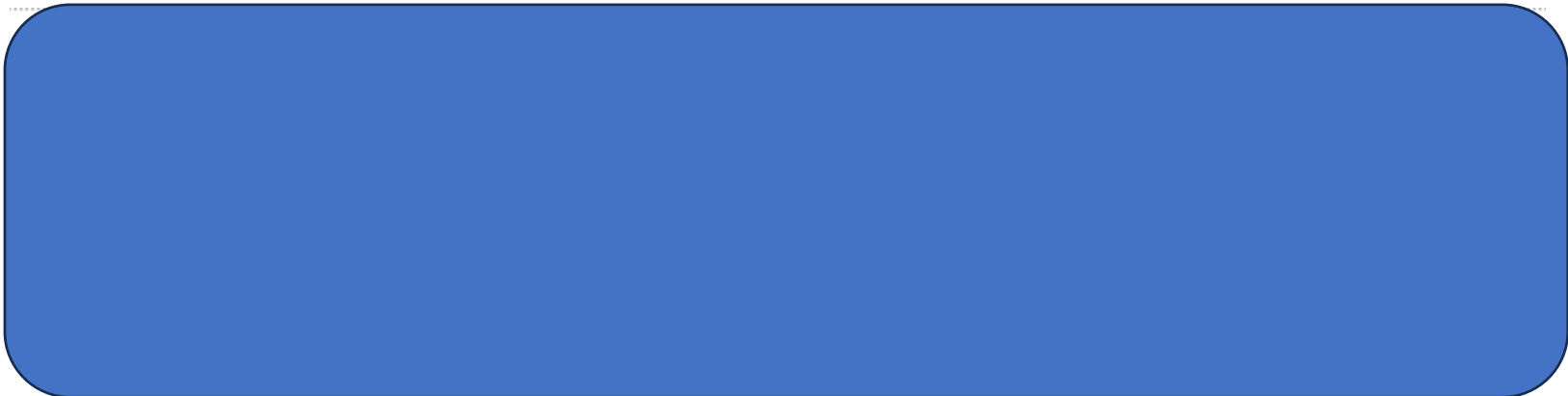
There's always more than 1 way to answer a question.

- A box holds 40 packets of envelopes.
- Each packet holds 25 envelopes
- How many envelopes does the box hold?

40 packets

25 envelopes in a pack

40 X 25 =

Bar Modelling- What is it?

- The bar model is a pictorial representation of a maths problem that uses rectangles to represent both known and unknown quantities (missing numbers).

- Early years and primary students can draw bars to represent values in maths problems. This can help them to answer the question more easily and can develop number sense.
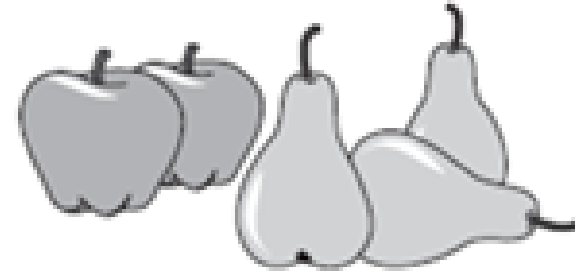
50 + 30 = ?

50 + 30 = 80
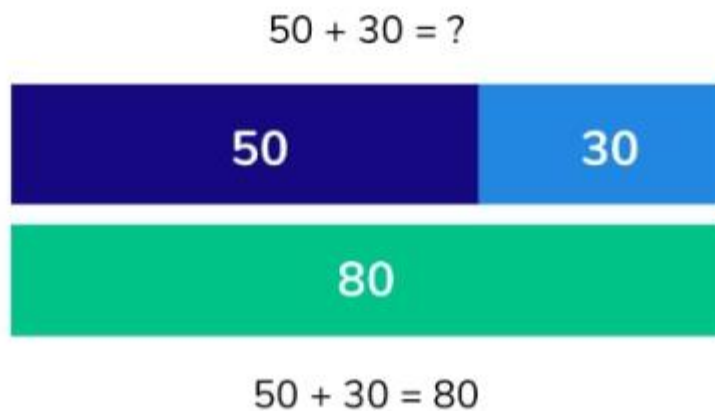
There were 25 people on the bus. Then 17 more people got on the bus. How many people are on the bus altogether?
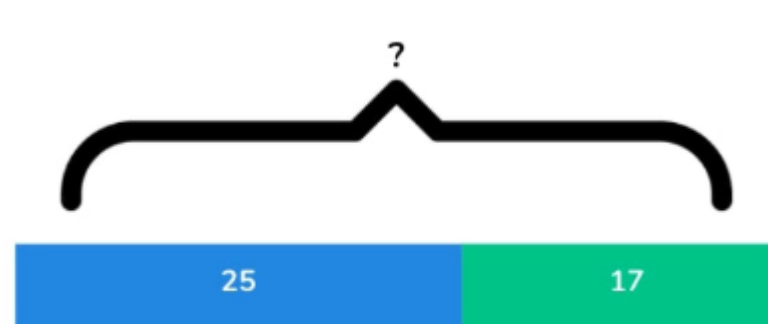
Seb bought 2 apples and 3 pears.

He spent £1.59 altogether.
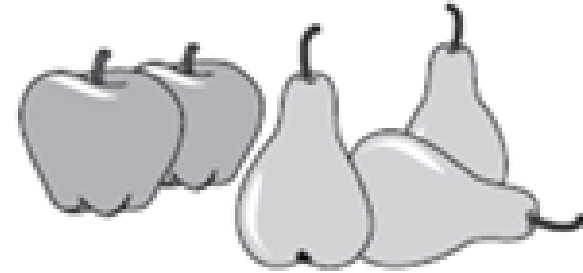
Apples cost 24p each.

How much does **one** pear cost?

What will my answer look like?

£ / p

Seb bought 2 apples and 3 pears.

He spent £1.59 altogether.

Apples cost 24p each.
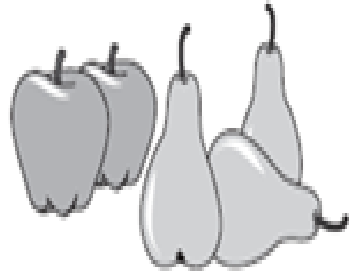
How much does **one** pear cost?

£1.59				
A	A	P	P	P

Seb bought 2 apples and 3 pears.

He spent £1.59 altogether.

£1.59 – 48p = £1.11

111 / 3
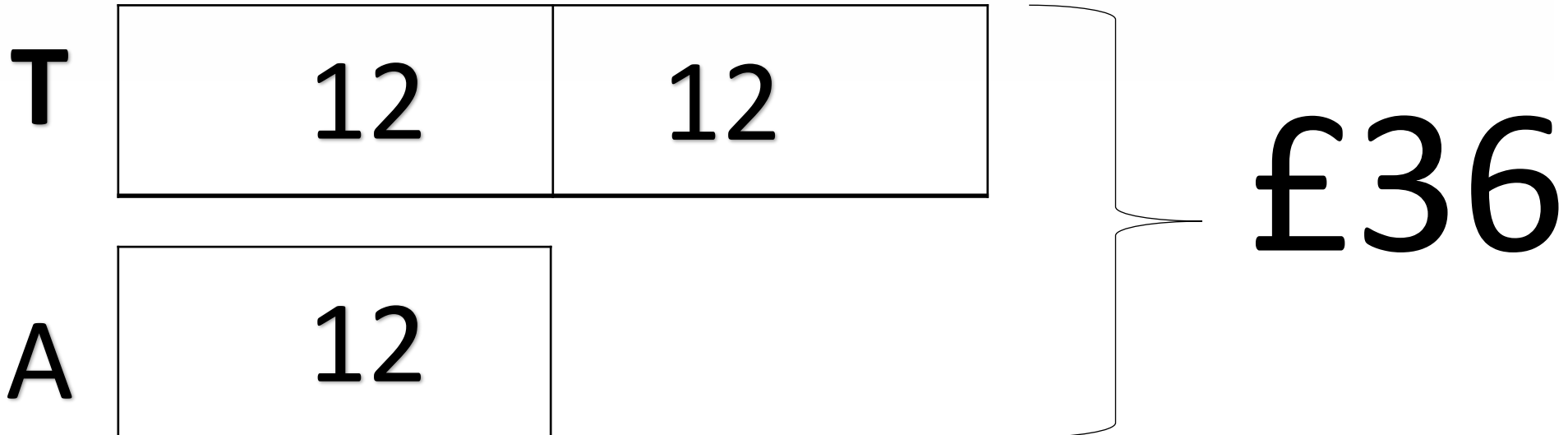
Apples cost 24p each.

How much does **one** pear cost?

£1.59				
A	A	P	P	P
24p	24p			

Tom and Aisha have £36 between them.

Tom has twice as much money as Aisha.

Tom shares his money between 6 friends.

How much does each friend get?

T | 12 | 12
A | 12

£36

Tom and Aisha have £36 between them.

Tom has twice as much money as Aisha.

Tom shares his money between 6 friends.

How much does each friend get?

T | 12 | 12 | £24

£24 ÷ 6 friends =£4

A class votes for a captain.

Three-quarters of the class vote for Sam.

The remaining 7 pupils vote for Alex.

How many pupils are in the class?

| 7 | 7 | 7 | 7 |

28

Types of fraction questions on reasoning papers

Here are four fractions.

$\frac{7}{8}$ $\frac{1}{5}$ $\frac{3}{4}$ $\frac{8}{10}$
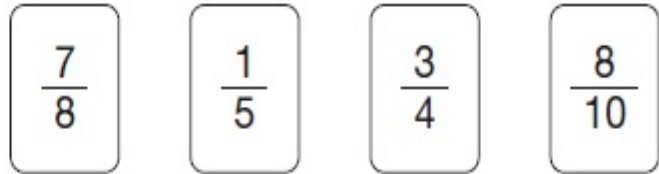
Write the fractions in order starting with the least.

☐ ☐ ☐ ☐

least

Accept equivalent fractions or exact equivalent decimals.

$\frac{1}{2} \times \frac{5}{6}$ is greater than the value of $\frac{1}{3} \times \frac{7}{8}$

Explain how you know.
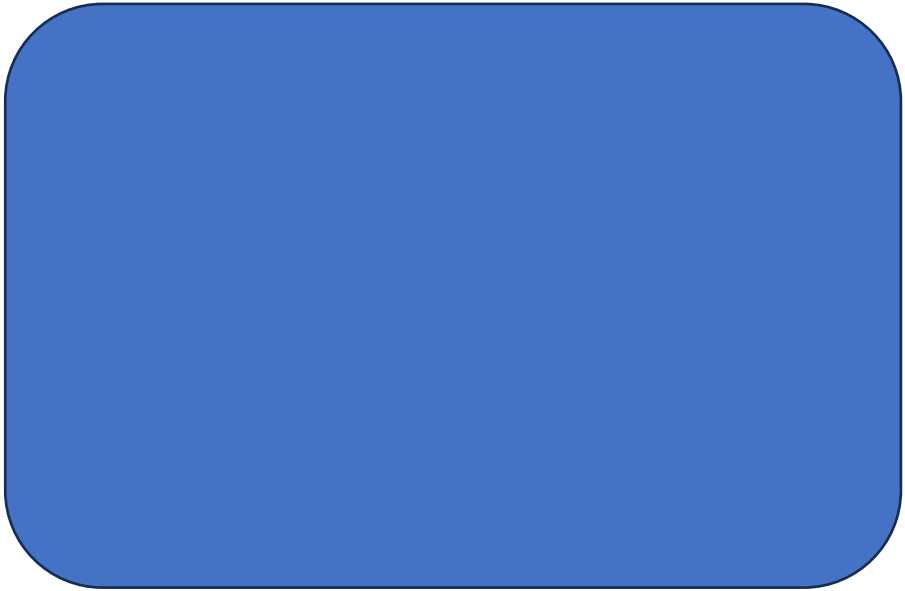
$\frac{6}{5}$ $\frac{3}{5}$ $\frac{3}{4}$

Write these fractions in order, starting with the **smallest**.

☐ ☐ ☐

smallest
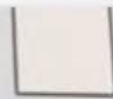
Don't overcomplicate

95% of 180 =

'DRAW IT' – MARK MAKING MATTERS

10 Rosie wants to work out 102 — 98 **in her head.**

Explain a method that Rosie could use.

2 marks

1 mark

1 mark

How to support your child at home…

- Little and often

- Purchase CGP (check with your child's teacher as we may be using some of the CGP books in school)

- Corbett Maths Website
  - Videos and questions