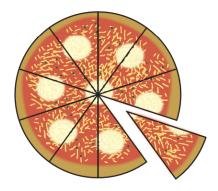
Topic 4 - Fractions

1 Rana, Penny and Joshua share a pizza.



Rana eats $\frac{2}{10}$ of the pizza.

Penny eats $\frac{4}{10}$ of the pizza.

Joshua eats $\frac{2}{5}$ of the pizza.

Which of these statements is/are correct?

- **1** They eat the whole pizza.
- 2 Joshua eats the least pizza.
- 3 Penny eats twice as much pizza as Joshua.
- A statement 1 only
- B statement 2 only
- c statements 1 and 2 only
- D statements 1 and 3 only
- E statements 2 and 3 only



Which of these statements is/are correct?

- $X = \frac{3}{4} + \frac{3}{4}$ is more than $1\frac{1}{4}$
- Y $1 \frac{3}{8}$ is less than $\frac{3}{8}$
- $\mathbf{Z} = \frac{1}{6}$ is more than $\frac{1}{10}$
- A statement Y only
- B statement Z only
- C statements X and Y only
- **D** statements X and Z only
- E statements Y and Z only



Finn, Gabriella and Hassan have some stickers.

Finn has 8 times as many stickers as Gabriella.

Hassan has $\frac{1}{2}$ as many stickers as Gabriella.

Finn has times as many stickers as Hassan.

What is the missing number in the sentence above?

- **A** $\frac{1}{16}$
- $\mathbf{B} \quad \frac{1}{4}$
- **C** 4
- **D** 12
- **E** 16



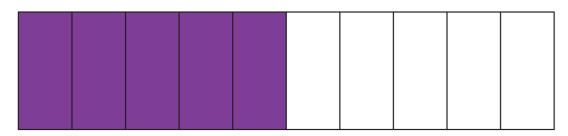
Which of these numbers is closest to $\frac{7}{10}$?

- **A** 0.072
- **B** 0.705
- **C** 0.68
- **D** 0.069
- **E** 0.73



Jack divides a white wall into equal sections.

He paints some sections purple, as shown.



Jack then paints $\frac{2}{5}$ of the whole wall yellow.

Finally, he paints the rest of the wall green.

How many sections does he paint green?

- Α ΄
- B 2
- **C** 3
- D /
- E !





Andy, Bella and Carlo shared a chocolate bar.

Andy ate $\frac{1}{5}$ of the bar, Bella ate $\frac{2}{5}$ of the bar and Carlo ate the rest.

Which of the following statements are correct?

- 1 Carlo ate less than half of the chocolate bar.
- 2 Andy ate more than one quarter of the chocolate bar.
- 3 Andy and Bella ate less than three quarters of the chocolate bar altogether.
- A statement 1 only
- B statement 2 only
- C statement 3 only
- **D** statements 1 and 2 only
- **E** statements 1 and 3 only



Quoc bought 4 pizzas to share with Amina, Fred and Sally.

Amina ate $\frac{4}{5}$ of a pizza.

Fred ate $1\frac{1}{5}$ pizzas.

Sally ate $\frac{3}{5}$ of a pizza.

Quoc ate all of the pizza that was left.

How much more pizza did Quoc eat than Amina?

- **A** $\frac{2}{5}$
- **B** $\frac{3}{5}$
- **c** $\frac{4}{5}$
- **D** $1\frac{4}{5}$
- **E** $2\frac{1}{5}$





Personalised English & Math Tutoring

Redeem Free Assessment





Answer Key

1	A							
2	D							
3	E							
4	В							
5	The wall has ten equal sections. Jack paints $\frac{2}{5}$ of the whole wall yellow; this is the same as $\frac{4}{10}$ so Jack paints 4 sections yellow. The diagram below shows $\frac{2}{5}$ and $\frac{4}{10}$ are equivalent: Jack paints 5 sections purple and 4 sections yellow. This leaves just one section to be painted green. So Jack paints 1 section green, and the correct answer is A 1.							



Andy ate $\frac{1}{5}$ of the bar and Bella ate $\frac{2}{5}$ of the bar, so Carlo must have also eaten $\frac{2}{5}$ of the bar.

This number line shows the position of the relevant fractions:

A	A A	A	A	A	A A	_
0	1 1	2	1	3	3 4	1
	$\frac{1}{5}$ $\frac{1}{4}$	$\frac{\overline{5}}{5}$	$\overline{2}$	$\frac{-}{5}$	$\frac{-4}{5}$	

Checking each statement in turn:

1 Carlo ate less than half of the chocolate bar.

 $\frac{2}{5}$ is less than one half, so statement 1 is correct.

2 Andy ate more than one quarter of the chocolate bar.

 $\frac{1}{5}$ is less than one quarter, so statement 2 is not correct.

3 Andy and Bella ate less than three quarters of the chocolate bar altogether. Together, Andy and Bella ate $\frac{3}{5}$ of the chocolate bar, so statement 3 is correct.

So the correct answer is **E statements 1 and 3 only** are correct.

Altogether, Amina, Fred and Sally ate $\frac{4}{5} + 1\frac{1}{5} + \frac{3}{5} = 2\frac{3}{5}$ pizzas. This leaves $1\frac{2}{5}$ for Quoc to eat, which is equivalent to $\frac{7}{5}$. So Quoc eats $\frac{7}{5} - \frac{4}{5} = \frac{3}{5}$ more pizza than Amina, and the correct answer is $\mathbf{B} \cdot \frac{3}{5}$.

Alternatively, we could work it out by thinking about the number of slices. Imagine cutting each of the four pizzas into 5 slices, so there would be $4 \times 5 = 20$ slices altogether, with each slice being $\frac{1}{5}$ of a pizza.

Amina ate $\frac{4}{5}$ of a pizza, which is 4 slices.

Fred ate $1\frac{1}{5}$ of a pizza, which is 5 + 1 = 6 slices.

Sally ate $\frac{3}{5}$ of a pizza which is 3 slices.



Altogether they have eaten 13 out of 20 slices, leaving 7 slices for Quoc. This is 3 slices more than Amina ate, which is $\frac{3}{5}$ of a pizza.

We could also show this information using a diagram:

