

## Maths 09.02.21

Use  $<$ ,  $>$  or  $=$  to complete the statements:

$$60\% \quad \bigcirc \quad 0.6 \quad \bigcirc \quad \frac{3}{5}$$

$$0.23 \quad \bigcirc \quad 24\% \quad \bigcirc \quad \frac{1}{4}$$

$$37.6\% \quad \bigcirc \quad \frac{3}{8} \quad \bigcirc \quad 0.27$$

Order from smallest to largest:

50%	$\frac{2}{5}$	0.45	$\frac{3}{10}$	54%	0.05
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Four friends share a pizza. Whitney eats 35% of the pizza, Teddy eats 0.4 of the pizza, Dora eats 12.5% of the pizza and Alex eats 0.125 of the pizza.

Write the amount each child eats as a fraction.

Who eats the most? Who eats the least? Is there any left?

### Challenge 1

In his first Geography test, Mo scored 38%

In the next test he scored  $\frac{16}{40}$

Did Mo improve his score?

Explain your answer.

### Challenge 2

Which month did Eva save the most money?

Estimate your answer using your knowledge of fractions, decimals and percentages.

Explain why you have chosen that month.

In January, Eva saves  $\frac{3}{5}$  of her £20 pocket money.



In February, she saves 0.4 of her £10 pocket money.

In March, she saves 45% of her £40 pocket money.



## Answers

Use  $<$ ,  $>$  or  $=$  to complete the statements:

$$60\% \text{ (} = \text{)} 0.6 \text{ (} = \text{)} \frac{3}{5}$$

$$0.23 \text{ (} < \text{)} 24\% \text{ (} < \text{)} \frac{1}{4}$$

$$37.6\% \text{ (} > \text{)} \frac{3}{8} \text{ (} > \text{)} 0.27$$

Order from smallest to largest:

50%	$\frac{2}{5}$	0.45	$\frac{3}{10}$	54%	0.05
0.05	$\frac{3}{10}$	$\frac{2}{5}$	0.45	50%	54%

Four friends share a pizza. Whitney eats 35% of the pizza, Teddy eats 0.4 of the pizza, Dora eats 12.5% of the pizza and Alex eats 0.125 of the pizza.

Write the amount each child eats as a fraction.

Who eats the most? Who eats the least? Is there any left?

$$\text{Whitney } 35\% = \frac{35}{100} = \frac{7 \times 5}{20 \times 4} = \frac{28}{80}$$

$$\text{Teddy} = 0.4 = \frac{2 \times 16}{5 \times 16} = \frac{32}{80}$$

$$\text{Dora} = 12.5\% = \frac{1 \times 10}{8 \times 10} = \frac{10}{80}$$

$$\text{Alex} = 0.125 = \frac{1 \times 10}{8 \times 10} = \frac{10}{80}$$

Teddy ate the most.

Dora, Alex ate the least.

There is nothing left.

### Challenge 1

In his first Geography test, Mo scored 38%

In the next test he scored  $\frac{16}{40}$

Did Mo improve his score?

Explain your answer.

Mo improved his score.

$\frac{16}{40}$  is equivalent to 40% which is greater than his previous score of 38%

### Challenge 2

Which month did Eva save the most money?

Estimate your answer using your knowledge of fractions, decimals and percentages.

Explain why you have chosen that month.

In January, Eva saves  $\frac{3}{5}$  of her £20 pocket money.



In February, she saves 0.4 of her £10 pocket money.

In March, she saves 45% of her £40 pocket money.



She saved the most money in March.

Estimates:  
Over £10 in

January because  $\frac{3}{5}$  is more than half.

Under £10 in February because she only had £10 to start with and 0.4 is less than half.

Nearly £20 in March because 45% is close to a half.

