Starter

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LO: to multiply and divide fractions by whole numbers.

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I do

$1\frac{1}{2} \times 40 =$ ☐

$\frac{5}{6} \times 540 =$ ☐

LO: to multiply and divide fractions by whole numbers.

we do

$1\frac{3}{4} \times 10 =$ ☐

$\frac{2}{5} \times 140 =$ ☐

LO: to multiply and divide fractions by whole numbers.

you do

$1\frac{1}{2} \times 40 =$ $1\frac{3}{4} \times 10 =$ $\frac{5}{6} \times 540 =$

$\frac{2}{5} \times 140 =$ $17 \times 1\frac{1}{2} =$ $1\frac{1}{2} \times 57 =$

LO: to multiply and divide fractions by whole numbers.

I do

$\frac{4}{5} \div 4 =$ ☐

$\frac{3}{5} \div 3 =$ ☐

$\frac{5}{6} \times 540 =$ ☐

LO: to multiply and divide fractions by whole numbers.

we do

$\frac{2}{5} \div 2 =$ ☐

Patterns?

LO: to multiply and divide fractions by whole numbers.

I do

$\frac{5}{8} \div 2 =$ ☐

$\frac{5}{6} \times 540 =$ ☐

LO: to multiply and divide fractions by whole numbers.

you do

$\frac{5}{8} \div 2 =$ $\frac{3}{5} \div 3 =$ $\frac{2}{5} \div 2 =$

$\frac{4}{5} \div 4 =$ $\frac{3}{4} \div 2 =$ $\frac{4}{7} \div 2 =$

LO: to calculate percentage increase and decrease.

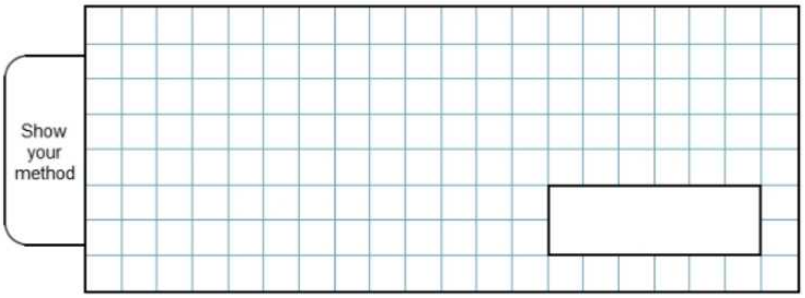
I do

250 000 people visited a theme park in one year.

15% of the people visited in April and

40% of the people visited in August.

How many people visited the park in the rest of the year?



2 marks

LO: to calculate percentage increase and decrease.

we do

Emily makes 250 grams of a snack mixture.

15% of the weight is raisins, 25% is banana chips and the rest is peanuts.

How many grams of **peanuts** does she use?

Show your method

g

2 marks

LO: to calculate percentage increase and decrease.

you do

250 000 people visited a theme park in one year.

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40% of the people visited in August.

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Show your method

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2 marks

LO: to calculate percentage increase and decrease.

you do

Chloe and Denise each bought identical T-shirts from the same shop.

Chloe bought hers on Monday when there was **15% off** the original price.



Denise bought hers on Friday when there was **20% off** the original price.



Chloe paid **35p more** then Denise.

What was the **original price** of the T-shirt?

Show your method

£

LO: to calculate percentage increase and decrease.

I do

5b. Two children were asked to explain their method for calculating a 30% decrease:



I find 70% of the number by dividing by ten and then multiplying by seven.

Millie



I find 30% by dividing by ten and then multiplying by three. I then subtract this from my original number.

Jacob

Who has the most efficient method? Explain your answer.

Both methods are acceptable. Millie's method has fewer steps so may be quicker. Children may have different answers depending on their preferred method, or may propose further methods.

LO: to calculate percentage increase and decrease.

we do

5a. Two children were asked to explain their method for calculating a 20% increase:



I find 10% and double it. I then add this to my original number.

Isla



I divide my number by five and then add it to the original number.

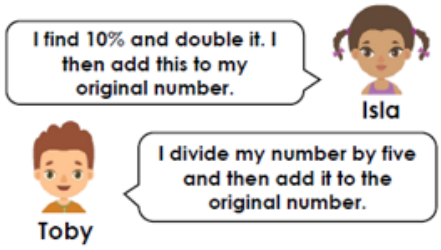
Toby

Who has the most efficient method? Explain your answer.

LO: to calculate percentage increase and decrease.

you do

5a. Two children were asked to explain their method for calculating a 20% increase:



Who has the most efficient method? Explain your answer.

6b. Eesa is buying some rugby boots.

There is 20% off for today only.

Eesa calculates that 20% of the cost of the rugby boots is £4.50.

What is the original price of the rugby boots?

LO: to calculate percentage increase and decrease.

5a. Two children were asked to explain their method for calculating a 20% increase:



I find 10% and double it. I then add this to my original number.

Isla



I divide my number by five and then add it to the original number.

Toby

Who has the most efficient method? Explain your answer.

Answers

Both methods are acceptable. Toby's method has fewer steps so may be quicker. Children may have different answers depending on their preferred method, or may propose further methods.

6b. Eesa is buying some rugby boots.

There is 20% off for today only.

Eesa calculates that 20% of the cost of the rugby boots is £4.50.

What is the original price of the rugby boots?

£22.50