

Year 5,

Please check Education City for any maths tasks relating to this week's work. Remember, you can do the tasks (on Education City) as many times as you want- so if you want to try the activity again and improve your score at the end of the week, after all your incredible learning, you can do!

None of your maths work needs to be sent in to your teachers, there are answers at the end of each PowerPoint for you to self-mark.

You are doing a great job!

Day 4- Thursday

Starter

Circle the numbers that are factors of **both** 32 and 48.

2

3

4

5

6

7

8

10

12

15

16

$$2653 \div 7 =$$

$$347 \times 13 =$$

Learning Reminders

Equivalence between percentages and fractions.

It is helpful to **remember** common **equivalent fractions** and **percentages**.

$$\frac{1}{10} \equiv 10\%$$

$$\frac{1}{5} \equiv 20\%$$

$$\frac{1}{4} \equiv 25\%$$

$$\frac{1}{2} \equiv 50\%$$

If we remember that $\frac{1}{10} \equiv 10\%$, we can find other tenths by multiplying the percentage.

E.g. $\frac{3}{10} \equiv 30\%$ and $\frac{7}{10} \equiv 70\%$.

If $\frac{1}{4} \equiv 25\%$, $\frac{3}{4} \equiv 75\%$, since $3 \times 25 = 75$.

Learning Reminders

Equivalence between percentages and fractions.

A class of children are asked to choose between swimming, cycling and football. $\frac{1}{4}$ chose swimming. $\frac{3}{10}$ of them prefer cycling. What percentage chose football?

Put the information we have into a bar model and fill in the equivalent percentages for swimming and cycling

$$\frac{1}{4} \equiv 25\%$$

$$\frac{3}{10} \equiv 30\%$$

Class of children		
$\frac{1}{4}$ 25% Swimming	$\frac{3}{10}$ 30% Cycling	? Football

The percentages MUST add to 100% so that everyone in the class is included.

$$25\% + 30\% + ? = 100\%$$

So 45% chose football.

Practice Sheet Mild

Equivalent percentages

Complete the missing percentages.

Children were asked to vote for cycling, swimming or football as their favourite weekend activity	
Fraction	Percentage
$\frac{1}{2}$ children prefer swimming	
$\frac{1}{4}$ prefer cycling	
The rest prefer football	

Children were asked to vote for dogs, cats or rabbits as their ideal pet	
Fraction	Percentage
$\frac{1}{2}$ prefer dogs	
$\frac{3}{10}$ prefer cats	
The rest prefer rabbits	

Children were asked to vote for oranges, bananas or apples as their favourite fruit	
Fraction	Percentage
$\frac{4}{10}$ prefer bananas	
$\frac{3}{10}$ prefer apples	
The rest prefer oranges	

Practice Sheet Hot

Equivalent percentages

Complete the missing percentages.

Children were asked to vote for dogs, cats or rabbits as their ideal pet	
Fraction	Percentage
$\frac{1}{2}$ prefer dogs	
$\frac{1}{5}$ prefer cats	
The rest prefer rabbits	

Challenge

In another pet survey, fish were voted for by $\frac{1}{20}$ of children, while snakes got $\frac{1}{25}$ of the vote!
What percentages are these fractions?

Children were asked to vote for cycling, swimming or football as their favourite weekend activity	
Fraction	Percentage
$\frac{1}{2}$ of children prefer swimming	
$\frac{3}{10}$ of children prefer cycling	
The rest prefer football	

Children were asked to vote for oranges, bananas or apples as their favourite fruit	
Fraction	Percentage
$\frac{2}{5}$ of children prefer bananas	
$\frac{3}{10}$ of children prefer apples	
The rest prefer oranges	

Starter

Circle the numbers that are factors of **both** 32 and 48.

2

3

4

5

6

7

8

10

12

15

16

$$2653 \div 7 = 379$$

$$347 \times 13 = 4511$$

Practice Sheets Answers

Equivalent percentages (mild)

Children were asked to vote for cycling, swimming or football as their favourite weekend activity	
Fraction	Percentage
$\frac{1}{2}$ children prefer swimming	50%
$\frac{1}{4}$ prefer cycling	25%
The rest prefer football	25%

Children were asked to vote for dogs, cats or rabbits as their ideal pet	
Fraction	Percentage
$\frac{1}{2}$ prefer dogs	50%
$\frac{3}{10}$ prefer cats	30%
The rest prefer rabbits	20%

Children were asked to vote for oranges, bananas or apples as their favourite fruit	
Fraction	Percentage
$\frac{4}{10}$ prefer bananas	40%
$\frac{3}{10}$ prefer apples	30%
The rest prefer oranges	30%

Equivalent percentages (hot)

Children were asked to vote for cycling, swimming or football as their favourite weekend activity	
Fraction	Percentage
$\frac{1}{2}$ children prefer swimming	50%
$\frac{3}{10}$ prefer cycling	30%
The rest prefer football	20%

Practice Sheets Answers

Equivalent percentages (hot) continued

Children were asked to vote for dogs, cats or rabbits as their ideal pet

Fraction	Percentage
$\frac{1}{2}$ prefer dogs	50%
$\frac{1}{5}$ prefer cats	20%
The rest prefer rabbits	30%

Children were asked to vote for oranges, bananas or apples as their favourite fruit

Fraction	Percentage
$\frac{2}{5}$ prefer bananas	40%
$\frac{3}{10}$ prefer apples	30%
The rest prefer oranges	30%

Challenge

Fish: $\frac{1}{20} = 5\%$

Snakes: $\frac{1}{25} = 4\%$