

Tuesday 19th May 2020

Arithmetic

$\begin{array}{r} 819 \\ - 267 \\ \hline \end{array}$	$\begin{array}{r} 460 \\ - 222 \\ \hline \end{array}$	$\begin{array}{r} 137 \\ + 768 \\ \hline \end{array}$	$\begin{array}{r} 714 \\ - 710 \\ \hline \end{array}$	$\begin{array}{r} 854 \\ - 393 \\ \hline \end{array}$
$\begin{array}{r} 976 \\ - 826 \\ \hline \end{array}$	$\begin{array}{r} 808 \\ - 799 \\ \hline \end{array}$	$\begin{array}{r} 437 \\ - 184 \\ \hline \end{array}$	$\begin{array}{r} 714 \\ - 386 \\ \hline \end{array}$	$\begin{array}{r} 809 \\ - 268 \\ \hline \end{array}$
$\begin{array}{r} 239 \\ + 694 \\ \hline \end{array}$	$\begin{array}{r} 509 \\ - 180 \\ \hline \end{array}$	$\begin{array}{r} 930 \\ + 170 \\ \hline \end{array}$	$\begin{array}{r} 975 \\ - 593 \\ \hline \end{array}$	$\begin{array}{r} 629 \\ + 550 \\ \hline \end{array}$
$\begin{array}{r} 463 \\ + 789 \\ \hline \end{array}$	$\begin{array}{r} 759 \\ + 732 \\ \hline \end{array}$	$\begin{array}{r} 449 \\ + 487 \\ \hline \end{array}$	$\begin{array}{r} 572 \\ - 209 \\ \hline \end{array}$	$\begin{array}{r} 831 \\ - 681 \\ \hline \end{array}$

Reasoning

Week 2 (w/c 27th April) Lesson 1

Log on to <https://whiterosemaths.com/homelearning/year-5/> and give it a go.

The screenshot shows a web browser window displaying the White Rose Maths website. The page is titled "Home Learning - Year 5 | White Rose Maths" and the URL is "whiterosemaths.com/homelearning/year-5/". The navigation menu includes "Resources", "Professional Development", "Home Learning", "Who We Are", and "News". A "Premium Resources Centre" button is also visible. The main content area is for "Summer Term - Week 2 (w/c 27th April)" and "Lesson 1 - Adding decimals with the same number of decimal places". A video player shows a lesson titled "Adding decimals with the same number of decimal places" with the equation $7.75 + 2.46 =$ and a place value chart. The chart has columns for Tens, Ones, Tenths, and Hundredths. To the right of the video player are two buttons: "Get the Activity" and "Get the Answers". A sidebar on the right lists "Home Learning - Early Years" through "Home Learning - Year 10".

WALT: Recognise, understand and convert percentages into fractions and decimals

All information from helpingwithmath.com

What is a percentage?

- Percent means "for every 100" or "out of 100."
- The (%) symbol as a quick way to write a fraction with a denominator of 100.
- As an example, instead of saying "it rained 14 days out of every 100," we say "it rained 14% of the time."

Percentages can be written as decimals by moving the decimal point two places to the left:

Percent means per 100, or divided by 100. Dividing by 100 moves the decimal point two places to the left.

$$24\% = \frac{24}{100} = .24$$

Decimals can be written as a percentages by moving the decimal point two places to the right:

Changing a number to its percentage value requires the opposite operation - multiply by 100 (or move the decimal point two places to the right.)

$$.32 \times 100 = 32\%$$

1) 12 people out of a total of 25 were female. What percentage were female?

Multiply by 100. Dividing the top and bottom by 25 (cancelling) leaves 12 x 4.

$$\frac{12}{25} \times 100 = 48\%$$

Find 1% - The Unitary Method

Handy Tip: A good way of finding percentages is to start by finding what 1% is.

Example: What is 6% of 31?

Find 1%.

$$31 \div 100 = .31$$

Divide by 100 (or move the decimal point two places to the left)

We now know what 1% is. We just need to multiply it by 6 to find 6%

$$.31 \times 6 = 1.86$$

6% of 31 is 1.86

You can calculate percentages by using "easy" percentages and then multiply or divide to find the "harder" percentage. The example below shows these two steps.

What is 30% of \$40?

Step 1	What is 10% of \$40? $10\% \text{ of } \$40 = \$40 \div 10 = \$4$	10% is a relatively easy percentage to find. It is the equivalent to one-tenth, or the same as dividing by 10 . To divide by 10 we move the decimal point one place to the left.
Step 2	$3 \times \$4 = \12 $30\% \text{ of } \$40 = \12	30% is 3 times (3 x) 10% so we multiply what 10% of \$40 is by 3

Use the above steps to calculate the percentages fill in the blanks in the tables below. The first table is completed for you.

	10%	30%		10%	40%		10%	70%
\$10	\$1	\$3	\$50	___	___	\$40	___	___
\$20	\$2	\$6	\$70	___	___	\$80	___	___
\$40	\$4	\$12	\$90	___	___	\$200	___	___

Answers:

$\begin{array}{r} 819 \\ - 267 \\ \hline 552 \end{array}$	$\begin{array}{r} 460 \\ - 222 \\ \hline 238 \end{array}$	$\begin{array}{r} 137 \\ + 768 \\ \hline 905 \end{array}$	$\begin{array}{r} 714 \\ - 710 \\ \hline 4 \end{array}$	$\begin{array}{r} 854 \\ - 393 \\ \hline 461 \end{array}$
$\begin{array}{r} 976 \\ - 826 \\ \hline 150 \end{array}$	$\begin{array}{r} 808 \\ - 799 \\ \hline 9 \end{array}$	$\begin{array}{r} 437 \\ - 184 \\ \hline 253 \end{array}$	$\begin{array}{r} 714 \\ - 386 \\ \hline 328 \end{array}$	$\begin{array}{r} 809 \\ - 268 \\ \hline 541 \end{array}$
$\begin{array}{r} 239 \\ + 694 \\ \hline 933 \end{array}$	$\begin{array}{r} 509 \\ - 180 \\ \hline 329 \end{array}$	$\begin{array}{r} 930 \\ + 170 \\ \hline 1100 \end{array}$	$\begin{array}{r} 975 \\ - 593 \\ \hline 382 \end{array}$	$\begin{array}{r} 629 \\ + 550 \\ \hline 1179 \end{array}$
$\begin{array}{r} 463 \\ + 789 \\ \hline 1252 \end{array}$	$\begin{array}{r} 759 \\ + 732 \\ \hline 1491 \end{array}$	$\begin{array}{r} 449 \\ + 487 \\ \hline 936 \end{array}$	$\begin{array}{r} 572 \\ - 209 \\ \hline 363 \end{array}$	$\begin{array}{r} 831 \\ - 681 \\ \hline 150 \end{array}$

Use the above steps to calculate the percentages fill in the blanks in the tables below. The first table is completed for you.

	10%	30%
\$10	<u>\$1</u>	<u>\$3</u>
\$20	<u>\$2</u>	<u>\$6</u>
\$40	<u>\$4</u>	<u>\$12</u>

	10%	40%
\$50	<u>\$5</u>	<u>\$20</u>
\$70	<u>\$7</u>	<u>\$28</u>
\$90	<u>\$9</u>	<u>\$36</u>

	10%	70%
\$40	<u>\$4</u>	<u>\$28</u>
\$80	<u>\$8</u>	<u>\$56</u>
\$200	<u>\$20</u>	<u>\$140</u>