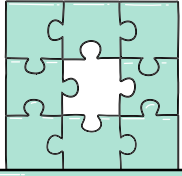


Equivalent fractions, decimals and percentages



Fill in the missing number!

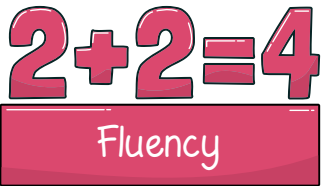
1) Use $<$, $>$ or $=$ to complete the statements.

a) $\frac{2}{3}$ 60%

b) 0.55 $\frac{1}{2}$

c) 8% 0.08

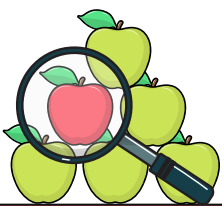
Equivalent fractions, decimals and percentages



2) Complete the table:

Percentage	57%	38%	6%							
Fraction	$\frac{57}{100}$			$\frac{23}{100}$	$\frac{42}{100}$			$\frac{7}{100}$	$\frac{3}{4}$	
Decimal	0.57					0.32	0.03			0.4

Equivalent fractions, decimals and percentages



Odd one out

3) Circle the odd one out in each set.

a) 0.05 5% 0.5 $\frac{5}{100}$

b) 75% $\frac{3}{4}$ $\frac{75}{100}$ $\frac{4}{5}$ 0.75

Equivalent fractions, decimals and percentages

2+2=4

Fluency

4) Change each fraction into a decimal and a percentage.

a) $\frac{4}{5} = \underline{\quad} = \underline{\quad}\%$

b) $\frac{7}{25} = \underline{\quad} = \underline{\quad}\%$

c) $\frac{18}{40} = \underline{\quad} = \underline{\quad}\%$

d) $\frac{9}{30} = \underline{\quad} = \underline{\quad}\%$

Equivalent fractions, decimals and percentages

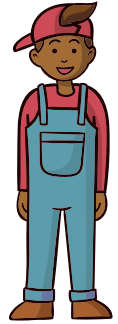


Explanation

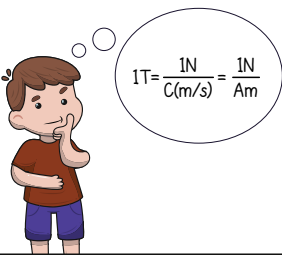
5) Max says that any percentage can be written as a decimal just by putting a decimal point and a zero in front of the percentage.

For example: 32% = 0.32, 115% = 0.115.

Is he correct? Explain how you know.



Equivalent fractions, decimals and percentages



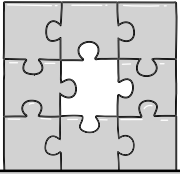
Problem solving

6) An ice cream stall offers vanilla, chocolate or strawberry ice cream. Out of all of the customers who ordered one scoop, 18% chose vanilla, $\frac{24}{50}$ chose chocolate and the rest chose strawberry. Write the amount who chose strawberry as:

- a) a fraction
- b) a decimal
- c) a percentage



Equivalent fractions, decimals and percentages



Fill in the missing number!

ANSWERS

1) Use <, > or = to complete the statements.

a) $\frac{2}{3}$ > 60%

b) 0.55 > $\frac{1}{2}$

c) 8% = 0.08

Equivalent fractions, decimals and percentages

$$2+2=4$$

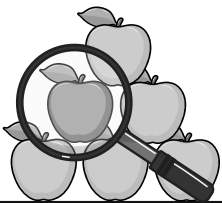
Fluency

ANSWERS

2) Complete the table:

Percentage	57%	38%	6%	23%	42%	32%	3%	7%	75%	40%
Fraction	$\frac{57}{100}$	$\frac{38}{100}$	$\frac{6}{100}$	$\frac{23}{100}$	$\frac{42}{100}$	$\frac{32}{100}$	$\frac{3}{100}$	$\frac{7}{100}$	$\frac{3}{4}$	$\frac{40}{100}$
Decimal	0.57	0.38	0.06	0.23	0.42	0.32	0.03	0.07	0.75	0.4

Equivalent fractions, decimals and percentages



Odd one out

ANSWERS

3) Circle the odd one out in each set.

a) 0.05 5% 0.5 $\frac{5}{100}$

b) 75% $\frac{3}{4}$ $\frac{75}{100}$ $\frac{4}{5}$ 0.75

Equivalent fractions, decimals and percentages

2+2=4

Fluency

ANSWERS

4) Change each fraction into a decimal and a percentage.

a) $\frac{4}{5} = 0.8 = 80\%$

b) $\frac{7}{25} = 0.28 = 28\%$

c) $\frac{18}{40} = \frac{4.5}{10} = \frac{45}{100} = 0.45 = 45\%$

d) $\frac{9}{30} = \frac{3}{10} = \frac{30}{100} = 0.3 = 30\%$

Equivalent fractions, decimals and percentages



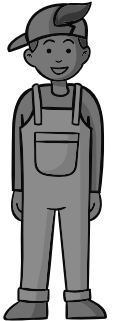
Explanation

ANSWERS

5) Max says that any percentage can be written as a decimal just by putting a decimal point and a zero in front of the percentage.

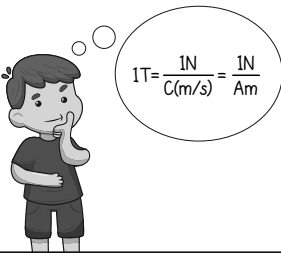
For example: 32% = 0.32, 115% = 0.115.

Is he correct? Explain how you know.



Max is incorrect, he has not thought about place value. 115% is more than 100% so the decimal would be 1.15. Anything less than 100% is a decimal number less than 1. Also, if you put a decimal point in front of 8% you get 0.8 which is actually $\frac{8}{10}$ which is 80%. 8% is $\frac{8}{100}$ which is 0.08.

Equivalent fractions, decimals and percentages



Problem solving

ANSWERS

6) An ice cream stall offers vanilla, chocolate or strawberry ice cream. Out of all of the customers who ordered one scoop, 18% chose vanilla, $\frac{24}{50}$ chose chocolate and the rest chose strawberry. Write the amount who chose strawberry as:

- a) a fraction
- b) a decimal
- c) a percentage



a) $\frac{34}{100} = \frac{17}{50}$

b) 0.34

c) 34%