Group A – Maths

Tuesday – Can I convert percentages to decimals and fractions?

Challenge 1

1 Write the fraction and the decimal that are equivalent to each percentage.

Example

$$13\% = \frac{13}{100} = 0.13$$

Remember they are all hundredths.

a 1%   b 25%   c 7%   d 24%   e 36%

f 41%   g 55%   h 63%   i 79%   j 86%

k 92%   l 99%   m 11%   n 19%   o 48%

p 57%   q 68%   r 5%   s 37%   t 71%

2 Why do fractions, decimals and percentages all go together?

Challenge 2

1 Work out the decimal equivalent and two fraction equivalents for each percentage.

a 25%   b 80%   c 50%   d 30%   e 75%

f 40%   g 20%   h 60%   i 10%   j 90%

Wednesday - Can I convert fractions into percentages and decimals when the denominator is a factor of 100?

1) Convert these fractions into percentages and decimals.

a) 3/5   b) 9/10   c) 17/20   d) 24/25

e) 4/10   f) 6/20   d) 17/25   e) 4/5

2) a) Jake has 2/10 of a pizza what percentage is this?

   b) Elm Class have already collected 34 marbles for their Reward Time. If they have 50 marbles in total to collect, what fraction have they already collected? What percentage is this?

Challenge

1) What is 0.30 as a fraction?
2) What is 0.30 as a percentage?
3) What is 0.55 as a percentage and as a fraction out of 100?
4) What is 0.68 as a percentage and as a fraction?

Thursday - Can I compare and order fractions, decimals and percentages??

1 Copy each pair of fractions, decimals or percentages writing the correct symbol between them: < or > or =.

a $\frac{1}{2}$ 0·3

b 45% $\frac{1}{4}$

c 0·6 $\frac{7}{10}$

d $\frac{9}{10}$ 91%

e 0·75 $\frac{7}{10}$

f $\frac{7}{10}$ 0·65

g 55%   0·15

h 0·1 $\frac{1}{10}$

i 40% $\frac{2}{4}$

j $\frac{6}{10}$ 0·8

k $\frac{3}{4}$ 34%

l 20% $\frac{4}{10}$

2 Choose two of your answers from Question 1 and explain how you know your answer is correct.

3 For each set, put the fractions, decimals and percentages in order, smallest to largest.

a $\frac{1}{2}$ | 0·6 | 55% | $\frac{1}{4}$ | 0.2 | 23%

b 0·3 | 0·1 | 1% | 64% | $\frac{4}{5}$ | $\frac{1}{2}$

c $\frac{7}{10}$ | 0·4 | 35% | $\frac{1}{5}$ | 50% | 0·6

d $\frac{4}{5}$ | $\frac{3}{10}$ | 0·7 | 61% | 99% | $\frac{9}{10}$

1 Copy each set of fractions, decimals or percentages, writing the correct symbol between them: < or > or =.

a 13% $\frac{1}{3}$

b 30%   0·03

c $\frac{7}{10}$ 0·71

d 0·25 $\frac{2}{5}$

e 52%   0·5

f $\frac{1}{5}$ 50%

g 80% $\frac{4}{5}$

h 0·14   44%

i $\frac{8}{20}$ 0·4

j $\frac{5}{8}$ 60%

k 0·06 $\frac{1}{20}$

l 5%   0·05

m 61%   0·66

n 0·16 $\frac{1}{6}$

o 66%   0·6

p $\frac{8}{20}$ 40%

Challenge

2 Work out each of these lengths in centimetres.

a $\frac{8}{20}$ m

b 40% of a metre

c 0·52 m

d $\frac{3}{5}$ m

e $\frac{7}{10}$ m

f 16% of a metre

<u>Friday – Can I develop my Arithmetic skills?</u>

Complete the Week 3 Test using the link below *before* your live session.

https://myminimaths.co.uk/year-6-arithmetic-practice-papers/

Answers- Tues-Thurs

TUESDAY

Challenge 1 answers

0.01 1/100	0.25 25/100	0.07 7/100	0.24 24/100	0.36 36/100
0.41 41/100	0.55 55/100	0.63 63/100	0.79 79/100	0.86 86/100
0.92 92/100	0.99 99/100	0.11 11/100	0.19 19/100	0.48 48/100
0.57 57/100	0.68 68/100	0.05 5/100	0.37 37/100	0.71 71/100

Challenge 2 answers

0.25 25/100 5/20 1/4	0.8 80/100 40/50 20/25 8/10 4/5	0.5 50/100 25/50 5/10 1/2	0.3 30/100 15/50 3/10	0.75 75/100 ¾
0.4 40/100 4/10 2/5 20/50	0.2 20/100 10/50 2/10 1/5	0.6 60/100 30/50 6/10 3/5	0.1 10/100 5/50 2/20 1/10	0.9 90/100 45/50 9/10

WEDNESDAY

<u>1</u>
a) 3/5 x 20 = 60/100 = 0.6 & 60%
b) 9/10 x 10 = 90/100 = 0.9 & 90%
c) 17/20 x 5 = 85/100 = 0.85 & 85%
d) 24/25 x 4 = 96/100 = 0.96 & 96%
e)4/10 x 10= 40/100 = 0.4 & 40%
f) 6/20 x 5 = 30/100 =   0.3 & 30%
g) 17/25 x 4 = 68/100 = 0.68 & 68%
h)4/5 x 20 = 80/100 = 0.8 & 80%

<u>2</u>
a) 20%
b) 34/50 = 68/100 = 68%

<u>Challenge</u>

1) 3/10   3) 55/100
2) 30%   4) 68% = 68/100 ÷ 4 = 17/25

THURSDAY

a) >	b) >	c) <	d) <
e) >	f) >	g) >	h) =
i) <	j) <	k) >	l) <

a) 0.2   23%   ¼   ½   55%   0.6
b) 1%   0.1   0.3   ½   64%   4/5
c) 1/5   35%   0.4   50%   0.6   7/10
d) 3/10   61%   0.7   4/5   9/10   99%

a) >	b) >	c) <	d) <
e) >	f) <	g) =	h) <
i) =	j) >	k) >	l) =
m) <	n) <	o) >	p) =

Challenge
a) 40 cm
b) 40 cm
c) 52 cm
d) 60 cm
e) 70 cm
f) 16 cm