

Answers for Y6 Maths (wb 01.06.20)

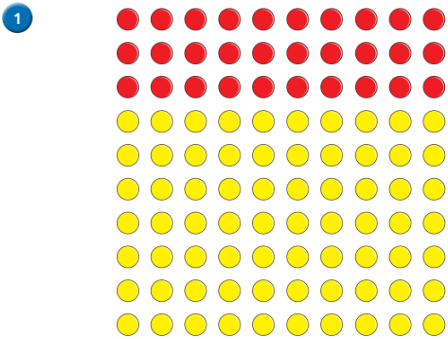
Morning Mental Maths

Monday	Tuesday	Wednesday	Thursday	Friday
1. 133,634	11. 687,730	21. 237,336	31. 250,860	41. 38,088
2. 6	12. 9	22. 5	32. 7	42. 8
3. 7200	13. 810	23. 56,000	33. 290	43. 3800
4. 7/10	14. 0.4	24. 0.52	34. 9/10	44. They are the same!
5. 5	15. 6	25. 40	35. 8	45. 15
6. 4/5	16. 1/4	26. 1/3	36. 1/3	46. 2/3
7. £4.01	17. £3.84	27. £17.57	37. £1.66	47. £3.13
8. 1,14,2,7	18. 1,24,2,12,8,3,6,4	28. 1,40,2,20,8,5	38. 1,50,2,25,5,10	48. 1,120,2,60,3,40,4,30,5,24,6,20,10,12
9. Any no. from the 7xtable, e.g. 21.	19. Any no. from the 9xtable, e.g. 63.	29. Any no. from the 3xtable, e.g. 27.	39. Any no. from the 12xtable, e.g. 48.	49. Any no. from the 15xtable, e.g. 45.
10. 7	20. 16	30. 4	40. 6	50. 21

Monday

Answers provided at end of download

Tuesday



- a) What fraction of the array of counters is red?

3

10
- b) What fraction of the array of counters is yellow?

7

10
- c) What percentage of the array of counters is red?

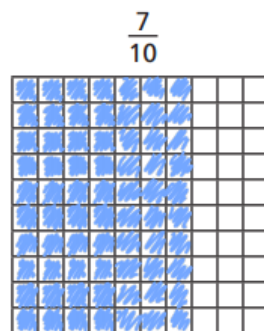
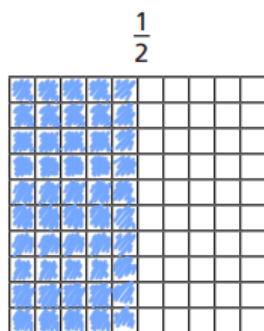
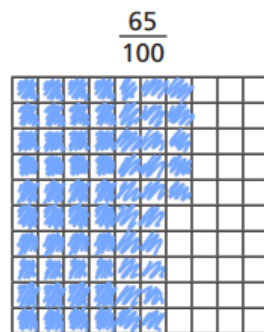
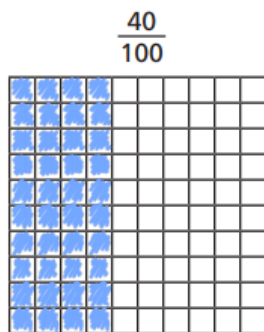
30

%
- d) What percentage of the array of counters is yellow?

70

%
- e) What do you notice about the two percentages?

- 2 a) Shade the hundred squares to represent the fractions.



- b) Write the fractions as percentages.

$$\frac{40}{100} = 40\%$$

$$\frac{65}{100} = 65\%$$

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

$$\frac{7}{10} = 70\%$$

- 3 Fill in the missing numbers.

a) $\frac{9}{10} = \frac{90}{100} = 90\%$

c) $\frac{9}{50} = \frac{18}{100} = 18\%$

b) $\frac{9}{20} = \frac{45}{100} = 45\%$

d) $\frac{9}{25} = \frac{36}{100} = 36\%$

4



$\frac{1}{10}$ is 10%, so $\frac{1}{20}$ must be 20%.

Explain the mistake that Ron has made.

What is the correct answer?

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

5

Convert the fractions to percentages.

a) $\frac{1}{4} = 25\%$

b) $\frac{1}{5} = 20\%$

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

$\frac{2}{5} = 40\%$

$\frac{3}{4} = 75\%$

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

- 7 a) Use each digit card once to make the statements correct.

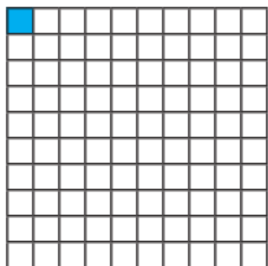


$$\frac{\boxed{1}}{\boxed{2}} > \boxed{4} \text{ } 0\% \qquad 75\% = \frac{\boxed{3}}{4} \qquad \frac{3}{\boxed{5}} < 65\%$$

- b) Are there any other solutions?

Wednesday

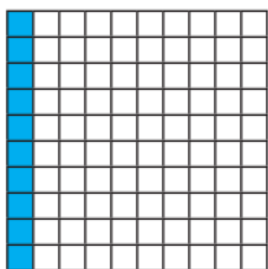
1 What fraction, decimal and percentage of each grid is shaded blue?



fraction = $\frac{1}{100}$

decimal = 0.01

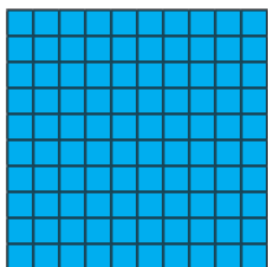
percentage = 1%



fraction = $\frac{1}{10}$

decimal = 0.1

percentage = 10%

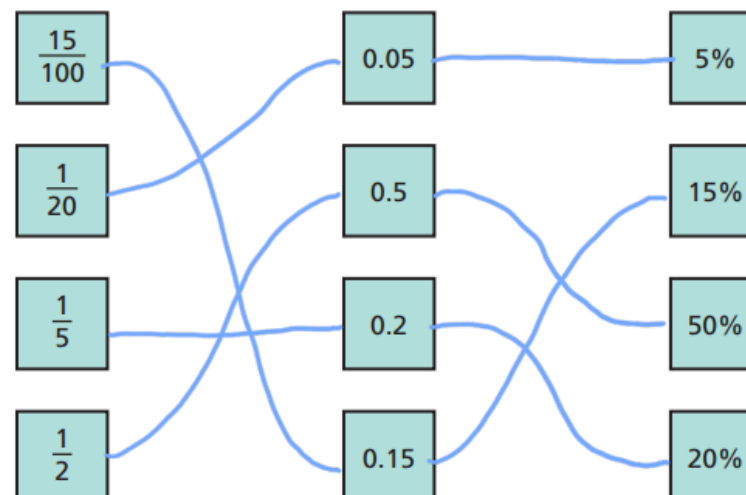


fraction = $\frac{100}{100}$

decimal = 1

percentage = 100%

2 Match the equivalent fractions, decimals and percentages.



4 Complete the table.

Fraction	Decimal	Percentage
$\frac{21}{100}$	0.21	21%
$\frac{3}{25}$	0.12	12%
$\frac{2}{10}$	0.2	20%
$\frac{2}{5}$	0.4	40%
$\frac{11}{25}$	0.44	44%
$\frac{1}{25}$	0.04	4%
$\frac{3}{4}$	0.75	75%
$\frac{99}{100}$	0.99	99%

- 5 Amir was asked to complete the statement using $<$, $>$ or $=$.

14% $>$ 0.4



14 is greater than 4

What mistake has Amir made?

He hasn't compared them in the same form. $0.4 = 40\%$ and $40\% > 14\%$ so $14\% < 0.4$

- 7 Use the digit cards to write a decimal greater than $\frac{1}{5}$ but less than 40%.

You may not use a card more than once in each number.



Eg. 0.24

- 6 Match the decimal cards to the people.



My decimal is $\frac{4}{10}$ less than 100%.



My decimal cannot be simplified when it is written as a fraction.



My decimal is 10% less than $\frac{3}{4}$



My decimal is greater than 60%.

0.65

0.57

0.61

0.6

Thursday

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

a) 64% $>$ 0.46

d) 0.8 $=$ 80%

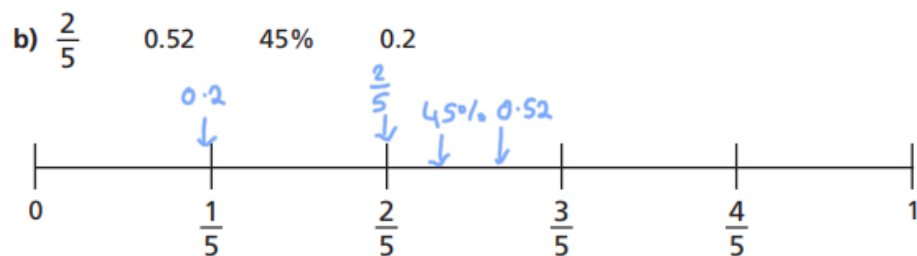
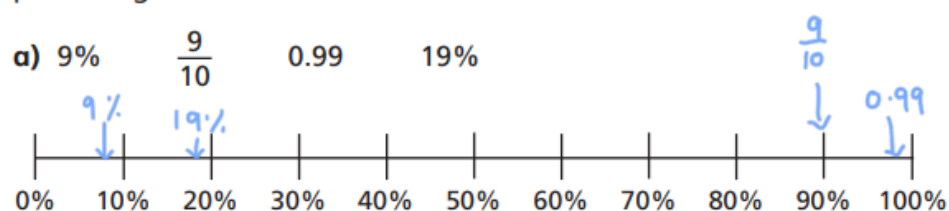
b) 0.96 $<$ $\frac{97}{100}$

e) 67% $<$ $\frac{7}{10}$

c) $\frac{3}{5}$ $>$ 35%

f) $\frac{7}{20}$ $>$ 0.3

2 Draw arrows to estimate the positions of the fractions, decimals and percentages on the number line.



3 Write the fractions, decimals and percentages in ascending order.

a) $\frac{7}{10}$ $\frac{13}{100}$ 21% 0.9

$\frac{13}{100}, 21\%, \frac{7}{10}, 0.9$

b) 0.6 61% $\frac{37}{50}$ 0.66

$0.6, 61\%, 0.66, \frac{37}{50}$

c) 47% 0.89 $\frac{63}{100}$ 12%

$12\%, 47\%, \frac{63}{100}, 0.89$

4 These fractions, decimals and percentages are in descending order.

99% $\frac{89}{100}$ 0.7 0.5 49%

Tick the fractions, decimals and percentages that could fill the gap.

0.78 51% ☒ $\frac{3}{5}$ ☒ 0.6 ☒ $\frac{4}{10}$

- 5 Tommy scored $\frac{40}{50}$ on a Maths test.

Aisha got 78% of the test correct.

Aisha thinks she has done better because 78 is greater than 40

Do you agree with Aisha? No

Explain your answer.

$\frac{40}{50} = 80\%$ and $80\% > 78\%$ so Tommy did better.

- 6 Huan, Nijah and Scott each started with a 1-litre bottle of juice.

Huan drank 0.55 litres.

Nijah drank 59% of her juice.

Scott has $\frac{4}{10}$ of his juice left.



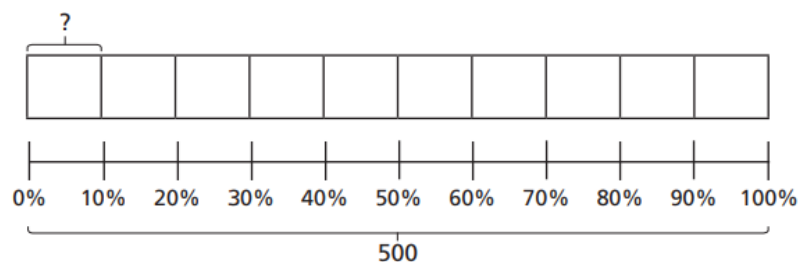
Who drank the most? Show your working.

Scott drank the most.

Who drank the least? Show your working.

Huan drank the least.

- 1 a) Use the bar model to find 10% of 500



- b) Use your answer to part a) to help you complete the calculations.

20% of 500 =

70% of 500 =

90% of 500 =

60% of 500 =

30% of 500 =

100% of 500 =

- 3 Some children are asked to find 75% of 340



I will find 25% and multiply it by 3

- a) Use Dexter's method to find 75% of 340

255



I will find 10% and multiply it by 7, then find 5% and add them together.

- b) Use Alex's method to find 75% of 340

255

- 4 Talk to a partner about different methods for finding these percentages.

20% 90% 60% 15% 55% 40%

Use your preferred method to calculate the percentages.

a) 20% of 1,000 = d) 15% of 1,000 =

20% of 550 = 15% of 300 =

20% of 40 = 15% of 30 =

b) 90% of 1,000 = e) 55% of 1,000 =

90% of 4,230 = 55% of 4,400 =

90% of 90 = 55% of 8 =

c) 60% of 1,000 = f) 40% of 1,000 =

60% of 400 = 40% of 400 =

60% of 98 = 40% of 98 =

- 6 a) Complete the calculations.

20% of 40 = 25% of 60 =

40% of 20 = 60% of 25 =

- b) What do you notice about the answers?

Each column is the same.