

Year 6 Maths Wednesday 17th June





A.



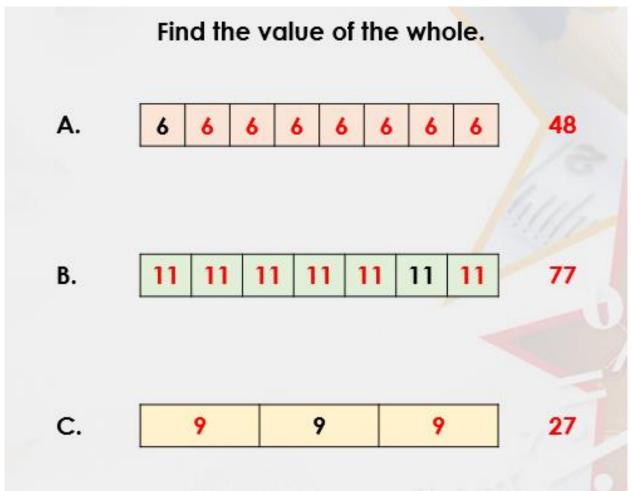
B.



С









How many of	each unit	fraction	are	neede
	to make a	whole?		

1 fifth	1 eighth
1 eleventh	1 seventh
1 third	1 twelfth



How many of each unit fraction are needed to make a whole?

1 fifth

5

1 eighth

8

1 eleventh

11

1 seventh

7

1 third

3

1 twelfth

12



Match each calculation to the correct answer.

 $\frac{3}{5}$ of 250

 $\frac{3}{8}$ of 440

 $\frac{4}{7}$ of 637

2 of 459

165

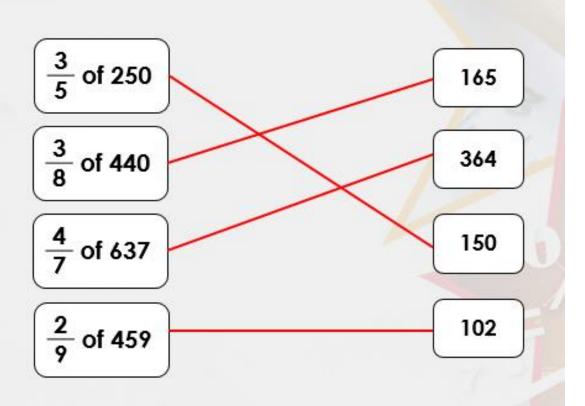
364

150

102



Match each calculation to the correct answer.





Lesson Aims

I can solve percentages of amounts.

Success Criteria:

- I understand percentage means out of 100.
- I understand 100% is one whole.
- I can relate fractions to percentages.



Today we are exploring finding percentages of amounts. This is similar to finding a fraction of an amount. Why?



Today we are exploring finding percentages of amounts. This is similar to finding a fraction of an amount. Why?

Fractions and percentages belong in the same family. They are both about finding part of a whole. Both finding a fraction of an amount and a percentage of an amount involves division.

Finding 10%

To find 10% you just divide the amount by 10. This is because 10 lots of 10 make 100%

Example:

10% of 80

 $80 \div 10 = 8$



Finding 20%

How do you think you would find 20%?



Finding 20%

How do you think you would find 20%?

To find 20% first find 10% and then multiply by 2.

This is because 20% is 2 lots of 10%

Finding 20%

Example : 20% of 40

$$40 \div 10 = 4$$

$$4 \times 2 = 8$$

20% of 40 is 8.



Use the same method to find 30%, 40% etc.

Find 10% first.

20% means x 2 (2 lots of 10%)

30% means x 3 (3 lots of 10%)

40% means x 4 (4 lots of 10%)



10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
7	7	7	7	7	7	7	7	7	7

The whole (100%) is 70

10% of 70 = 7

20% of 70 = 14

30% of 70 = 21



Finding 5%

To find 10% we divide the total by 10.

How do you think you could find 5%?



Finding 5%

To find 10% we divide the total by 10.

How do you think you could find 5%?

You could find 10% and then halve the answer.



Finding 50%

How do you think we could find 50% of an amount?



Finding 50%

How do you think we could find 50% of an amount?

You could halve the total.

The total is 100% so 50% is half the amount.



Finding 1%

How do you think we could find 1% of an amount?

Finding 1%

How do you think we could find 1% of an amount?

Divide the total by 100.

1% of 800

 $800 \div 100 = 8$

1% of 800 is 8



Main Teaching Summary

To find...

10%	Divide by 10
1%	Divide by 100
50%	Divide by 2
20%	Find 10% and then x2
30%	Find 10% and then x3
40%	Find 10% and then x4
25%	Divide by 4



Activity

Now complete the percentage of amounts fluency work on the next slide. Choose from one of the three sections.

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86 188

PERCENTAGES OF AMOUNTS

Mild

10% of £80 =

2) 10% of £130 =

1)

3) 10% of £459 =

4) 10% of £36 =

5) 20% of £60 =

6) 20% of £140 =

7) 20% of £62 =

8) 30% of £70 =

9) 30% of £180 =

10) 30% of £120 =

11) 40% of £80 =

12) 40% of £240 =

Medium

1) 50% of £160 =

2) 50% of £380 =

3) 50% of £131 =

4) 60% of £90 =

5) 60% of £110 =

6) 70% of £30 =

7) 70% of £410 =

8) 80% of £40 =

9) 80% of £120 =

10) 90% of £120 =

11) 90% of £800 =

12) 5% of £360 =

Spicy

1) 15% of £180 =

2) 15% of £400 =

3) 25% of £180 =

4) 25% of £420 =

5) 35% of £60 =

6) 35% of £80 =

7) 45% of £90 =

8) 65% of £40 =

9) 75% of £60 =

10) 95% of £10 =

PERCENTAGES OF AMOUNTS

1)
$$10\%$$
 of £80 =£8

2)
$$10\% \text{ of } £130 = £13$$

3)
$$10\%$$
 of £459 = £45.90

4)
$$10\%$$
 of £36 = £3.60

5)
$$20\%$$
 of £60 = £12

6)
$$20\%$$
 of £140 = £28

7)
$$20\%$$
 of £62 = £12.40

10)
$$30\%$$
 of £120 = £36

11)
$$40\%$$
 of £80 = £32

12)
$$40\%$$
 of £240 = £96

1)
$$50\%$$
 of £160 = £80

2)
$$50\%$$
 of £380 = £190

3)
$$50\%$$
 of £131 = £65.50

4)
$$60\%$$
 of £90 = £54

5)
$$60\%$$
 of £110 = £66

6)
$$70\%$$
 of £30 = £21

7)
$$70\%$$
 of £410 = £287

8)
$$80\%$$
 of £40 = £32

9)
$$80\%$$
 of £120 = £96

11)
$$90\%$$
 of £800 = £720

2)
$$15\%$$
 of £400 = £60

3)
$$25\%$$
 of £180 = £45

4)
$$25\%$$
 of £420 = £105

5)
$$35\%$$
 of £60 = £21

6)
$$35\%$$
 of £80 = £28

7)
$$45\%$$
 of £90 = **£40.50**

8)
$$65\%$$
 of £40 = £26

9)
$$75\%$$
 of £60 = £45







Use <, > or = to complete the comparison statement. 45% of £60 80% of £30 (£27) (£24) 15% of £180 25% of £140 В. (£27) (£35)



Which card shows the highest amount? Which shows the lowest?

20% of 110

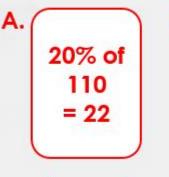
35% of 80

В.

15% of 160



Which card shows the highest amount? Which shows the lowest?





Varied Fluency Activity

- Complete the varied fluency activity sheet.
- Choose from one of the three levels.



Review

- Can you review your learning?
- Can you explain to others how to find a percentage of an amount?

