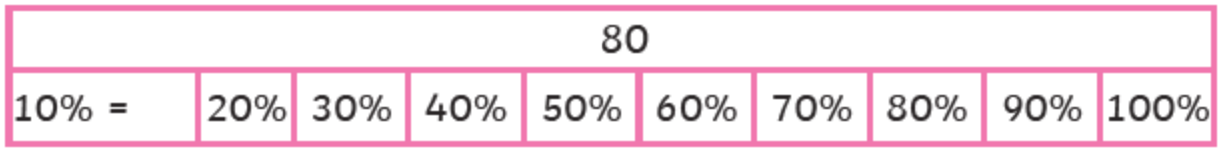
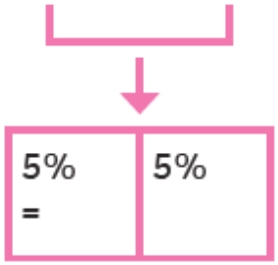
L.O. Calculate percentages of amounts. (3)

Fluency 1

Use the bar model to help you to find **15% of 80**





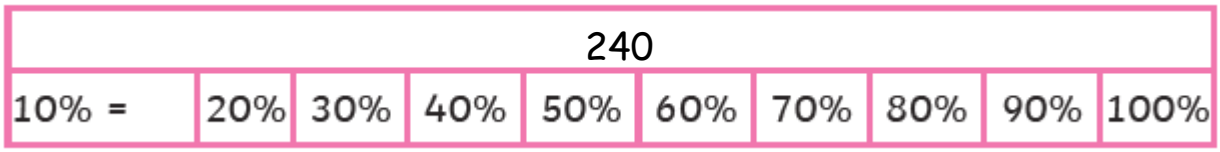
10% of 80 = 8

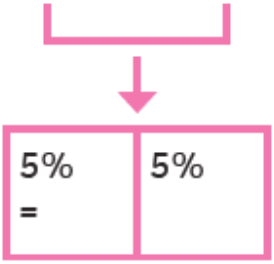
5% of 80 = 4

Therefore, 15% of 80 = 8 + 4 = 12

Fluency 2

Use the bar model to help you to find **15% of 240**





10% of 240 = 24

5% of 240 = 12

Therefore, 15% of 240 = 24 + 12 = 36

Fluency 3

Calculate 15% of the following numbers. *Tip: Find 10%, then 5% and add the two together.*

a.) 15% of 40 = 4 + 2 = 6

b.) 15% x 140 = 14 + 7 = 21

c.) 15% of 160 = 16 + 8 = 24

d.) 15% x 280 = 28 + 14 = 42

e.) 15% of 300 = 30 + 15 = 45

f.) 15% of 480 = 48 + 24 = 72

g.) 15% of 520 = 52 + 27 = 79

h.) 15% of 940 = 94 + 47 = 141

Example

Look at how we can use our knowledge of 10% to calculate 35% of 120.

10% of 120 = 12

5% of 120 = 12 ÷ 2 = 6

30% of 120 = 12 x 3 = 36

Therefore, 35% of 120 = 36 + 6 = 42

Now use this method to calculate the percentages below.

Fluency 4

Calculate 45% of 80 by using this method:

10% of 80 = 8

5% of 80 = 8 ÷ 2 = 4

40% of 80 = 4 x 8 = 32

Therefore, 45% of 80 = 32 + 4 = 36

Fluency 5

Calculate 65% of 280 by using this method:

10% of 280 = 28

5% of 280 = 28 ÷ 2 = 14

60% of 280 = 28 x 6 = 168

Therefore, 65% of 280 = 168 + 14 = 182

Fluency 6

Use the above method to calculate the following percentages.

a.) 35% x 160 = 48

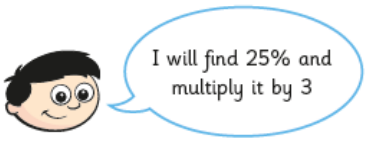
b.) 45% of 180 = 81

c.) 85% x 120 = 102

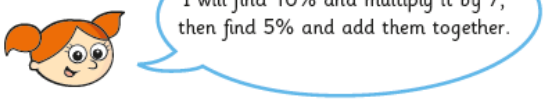
d.) 95% of 300 = 285

Was there a different way you could have calculated any of these?

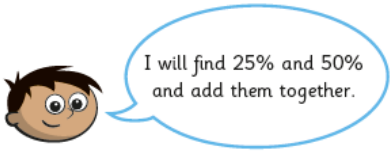
Fluency 7



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



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



All equal 255

c) Use Amir's method to find 75% of 340

d) Are there any other methods you could use?