LO: To find percentages of a given amount (bronze)

Practise

Find these percentages.

1) 10% of 670
2) 5% of 200
3) 1% of 300
4) 10% of 30
5) 50% of 600
6) 10% of 56
7) 25% of 400
8) 10% of 12
9) 1% of 4
10) 5% of 78

Fluency

11) 45% of 400

12) 31% of 600

13) Joanne works 40 hours per week. So far she has worked 35% of her hours. How many hours does she have left to work this week?

14) Steve has got to serve 500 hours of community service. So far he has done 60% of his hours. How many hours does he still have left to do?

15)

Use Dora's method to complete the calculations.

To find 5% you can find 10% and then halve it.

a) 5% of 40 = [ ]   d) 5% of 2,000 = [ ]

b) 5% of 400 = [ ]   e) 5% of 6,000 = [ ]

c) 5% of 4,000 = [ ]

What do you notice about your answers?

LO: To find percentages of a given amount (silver)

Practise

Find these percentages.

1) 5% of 500
2) 10% of 56
3) 25% of 400
4) 10% of 12
5) 1% of 4
6) 5% of 78

Fluency

7) 13% of 200

8) 67% of 80
9) Steve has got to serve 500 hours of community service. So far he has done 60% of his hours. How many hours does he still have left to do?

Reasoning

10) Isla says 'To find 10% you divide by 10, to find 20% you divide by 20.' Do you agree? Explain your reasoning.

11) Daniel is saving money. His dad offers his two lots of money. 60% of £35 or 45% of £48. Which should he take? Show your reasoning.

Problem solving

12)

Workers in a toy factory aim to pack 2,560 boxes each day.

At 10:00 am they have completed 25% of their target.

a) How many boxes have they packed?

By midday they have packed 50% of their target.

At 2:00 pm they have packed another 10% of their target.

b) How many more boxes do they need to pack to meet the daily target?

They need to pack [ ] more boxes.

LO: To find percentages of a given amount (gold)

Practise

Find these percentages.

1) 1% of 4
2) 5% of 78
3) 10% of 8
4) 1% of 13

Fluency
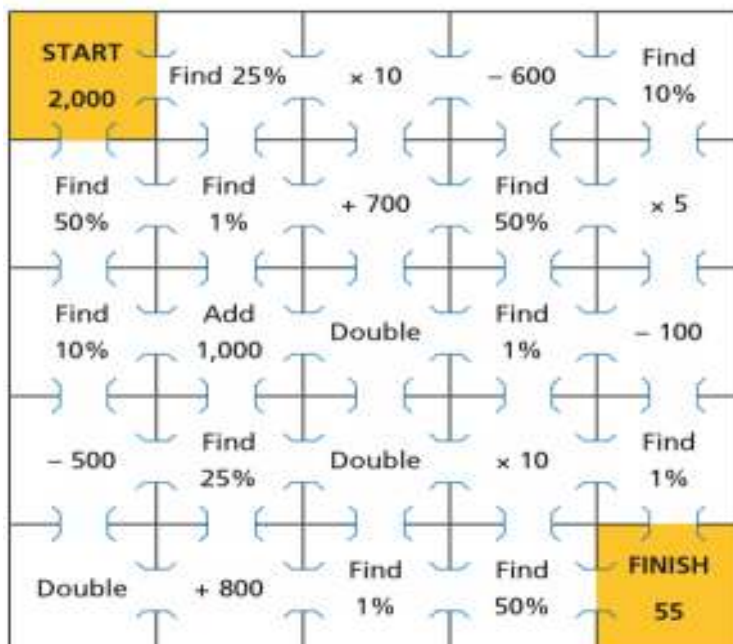
5) 13% of 200
6) 67% of 80

Reasoning

7) Daniel is saving money. His dad offers his two lots of money. 60% of £35 or 45% of £48. Which should he take? Show your reasoning.

8) Would you rather be surrounded by 25% of 40 snakes or 40% of 25 snakes? Explain your reason clearly for your choice.

Problem Solving

9) A golf club has 200 members. 58% of the members are male. 50% of the female members are children. How many male members are in the golf club? How many female members are in the golf club?
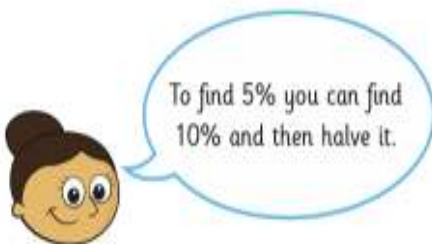
10) Follow the steps to find a way through the maze.

Practise

Find these percentages.

1) 67
2) 10
3) 3
4) 3
5) 300
6) 5.6
7) 100
8) 1.2
9) 0.04
10) 3.9

Fluency

11) 180

12) 186

13) 26 hours

14) 200 hours

15)

Use Dora's method to complete the calculations.

To find 5% you can find 10% and then halve it.

a) 5% of 40 = **2**

b) 5% of 400 = **20**

c) 5% of 4,000 = **200**

d) 5% of 2,000 = **100**

e) 5% of 6,000 = **300**

What do you notice about your answers?

LO: To find percentages of a given amount (silver) - answers

Practise

Find these percentages.

1) 25
2) 5.6
3) 100
4) 1.2
5) 0.04
6) 3.9

Fluency

7) 26

8) 53.6
9) 200 hours

Reasoning

10) No, because…

11) 60% of £35 = £21   or 45% of £48 = £21.60

Problem solving

12)

Workers in a toy factory aim to pack 2,560 boxes each day.

At 10:00 am they have completed 25% of their target.

a) How many boxes have they packed?   **640**

By midday they have packed 50% of their target.

At 2:00 pm they have packed another 10% of their target.

b) How many more boxes do they need to pack to meet the daily target?

They need to pack **384** more boxes.

LO: To find percentages of a given amount (gold) - answers

Practise

Find these percentages.

1) 0.04
2) 3.9
3) 0.8
4) 0.13

Fluency

5)   26
6) 53.6

Reasoning

7) 60% of £35 = £21 or 45% of £48 = £21.60
8) They would both equal 10 snakes – so no difference

Problem Solving

9) 116 male members   84 female members

10)   Follow the steps to find a way through the maze.