Calculate with Percentages

Tick the **two** numbers that are equivalent to $\frac{1}{4}$

Tick **two.**

0.25 ☐

0.75 ☐

$\frac{25}{100}$ ☐

0.5 ☐

$\frac{2}{5}$ ☐

What percentages are equivalent to each?

What other equivalents do you know?

Complete this:

50% is the same as $\frac{1}{\boxed{}}$ so ÷ by …

25% is the same as $\frac{1}{\boxed{}}$ so ÷ by …

10% is the same as $\frac{1}{\boxed{}}$ so ÷ by …

1% is the same as $\frac{1}{\boxed{}}$ so ÷ by …

Chunk 1

Remember…
To find 50% ÷2
To find 25% ÷4
To find 10% ÷10
To find 1% ÷100

50% of 428

25% X 428

10% of 428

1% X 428

Chunk 1: Your Turn

a) 50% of 1428
b) 25% X 460
c) 10% of 2570
d) 1% X 390

Dive Deeper

EXPLAIN IT!
Explain how you know each of your answers.

Chunk 1: Answers

a) 50% of 1428

  1428÷2 = 714

b) 25% X 460

  460÷4=115

C) 10% of 2570

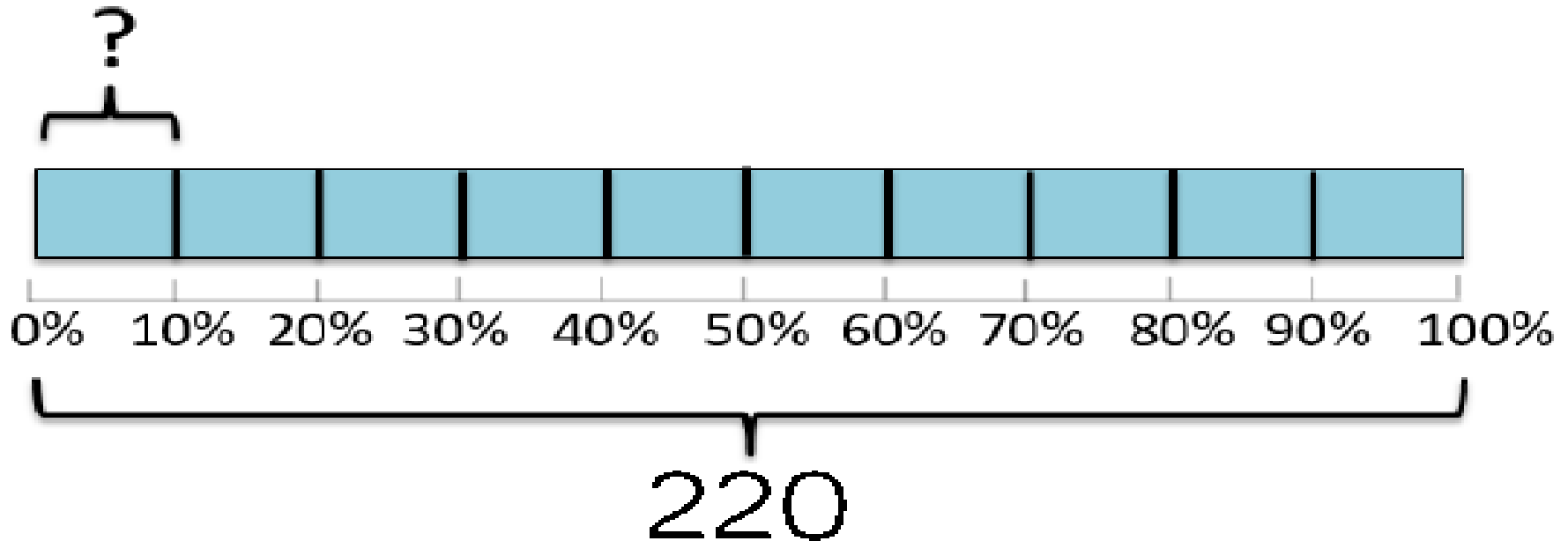 2570÷10=257

d) 1% X 390

  390÷100=3.9

Chunk 2

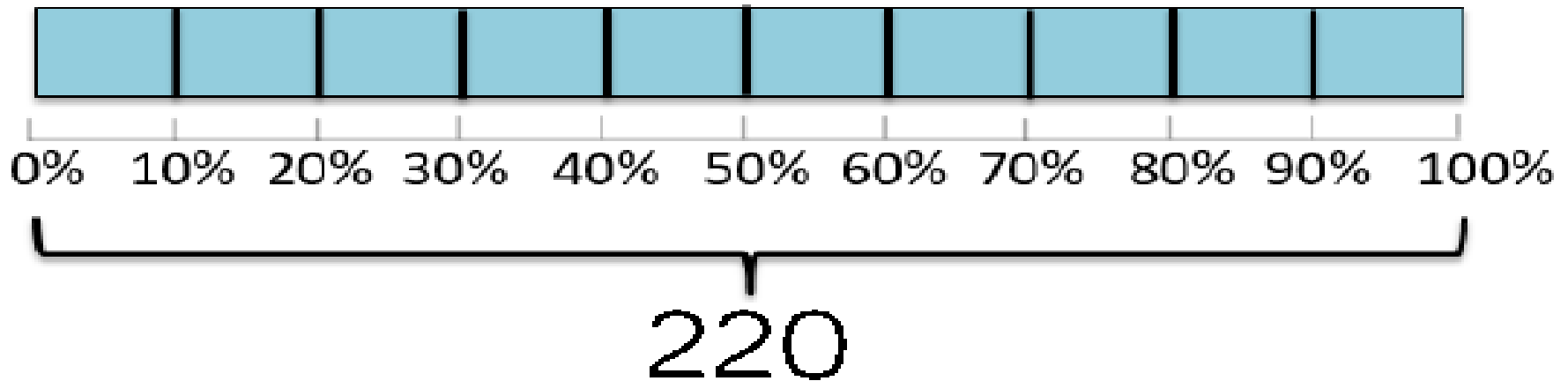If you know how to find 10%, how could you use this to find 20%?

?

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

220

30%? 40%? 60%? 70%?

Why is this not an efficient method to find 50%?

What could we do to find 5% of a number?

?

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

220

How could you use this to find 15%? 35%?

?

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

220
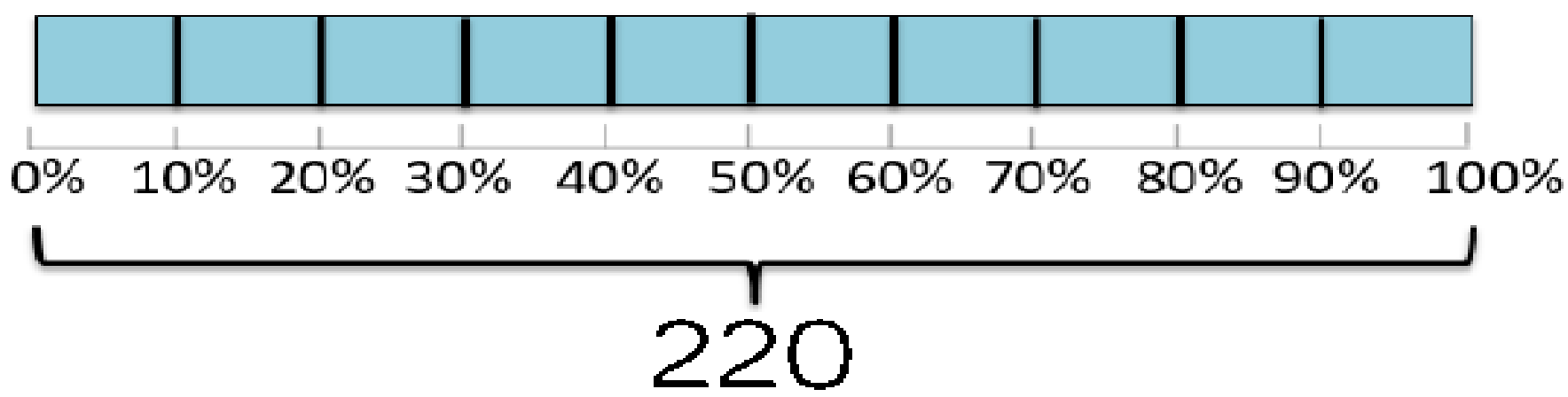
Chunk 2: Your Turn

Find ... of 480

a) 5%
b) 15%
c) 35%
d) 45%

e)

Jack has £400

He spends **35%** of his money on a new bike.

How much does Jack spend on his new bike?

MAKE A MISTAKE
... and explain how it might be easily made.

Chunk 2: Answers

Find ... of 480

a) 5% = **24**

10%=48   5%=48÷2=24

b) 15% = **72**

15%=10%+5%=48+24

c) 35% = **168**

35% = 20% + 10% + 5%
= 96   + 48 + 24

d) 45% = **216**

Dive Deeper

MAKE A MISTAKE

... and explain how it might be easily made.

Chunk 2: Answers

Jack has £400

He spends **35%** of his money on a new bike.

How much does Jack spend on his new bike?

10% of 400 = 40
5 % of 400 = 20
20% of 400 = 80

20% + 10% + 5% = 35%
80 + 40 + 20 = 140

99% of 200 =

11% of 420 =

28% of 420 =

36% of 760 =

Chunk 3: Your Turn

a) 99% of 300
b) 11% of 340
c) 24% of 5600
d) 72% of 1200

AND ANOTHER!
Is there another way that you could calculate some of these percentages?

Plenary

Which problem was the most challenging? Explain why it was the most challenging.