Warm up - Reasoning with large numbers
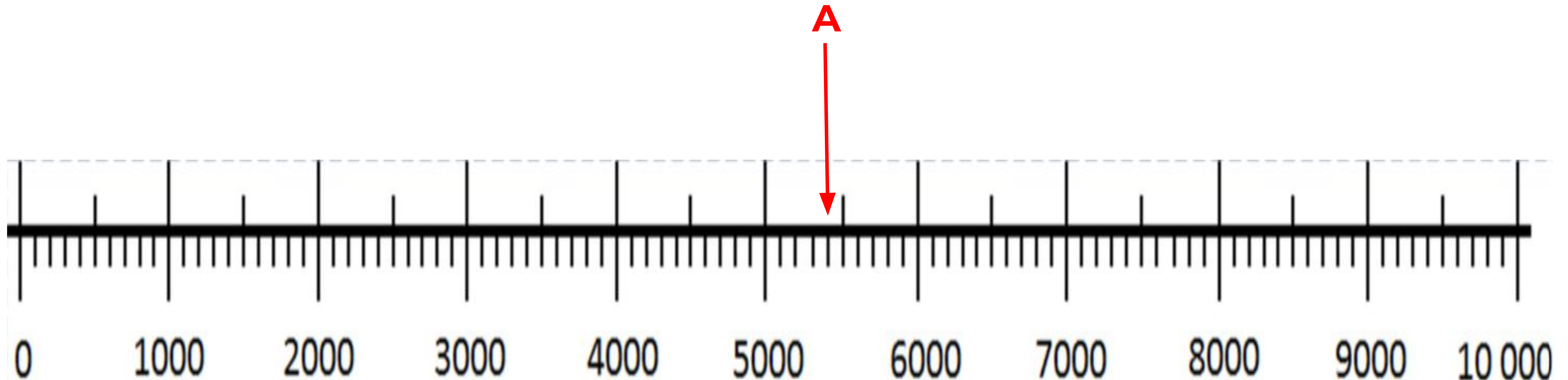
Can you approximate the position of the following numbers on the number line?
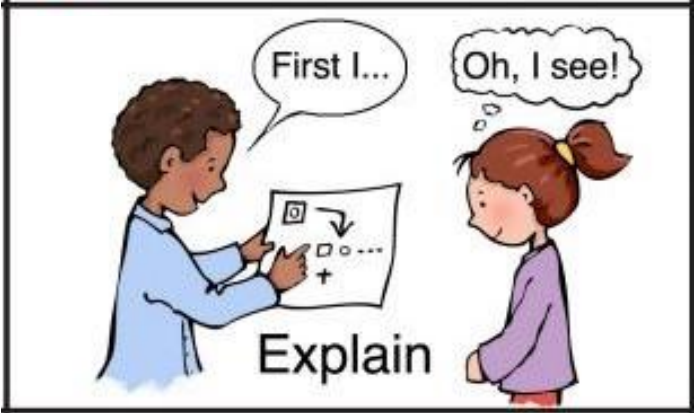

A) 5420   B) 9350   C) 12 400   D) 49 600   E) 83 005

Talk Task

Discuss, draw and demonstrate how to multiply and divide by 100 and 1000.

Demonstrate completing these calculations:

Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones

a) **32 × 100**

b) 320 × 100

c) **4100 ÷ 100**

d) 41 000 ÷ 100

e) **32 × 1000**

f) 320 × 1000

g) **4000 ÷ 1000**

h) 41 000 ÷ 1000

Talk Task

Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones

$2 \times 3 = 6$

$3 \times 2 = 6$
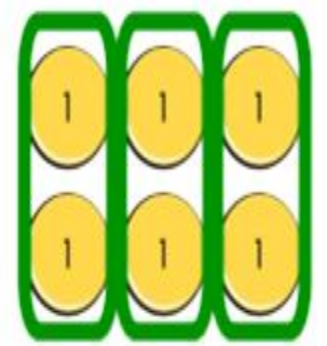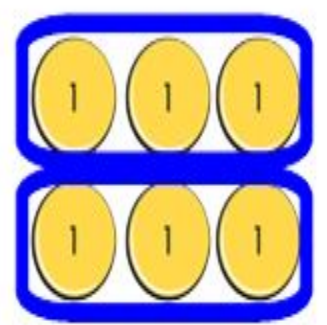
$6 \div 2 = 3$
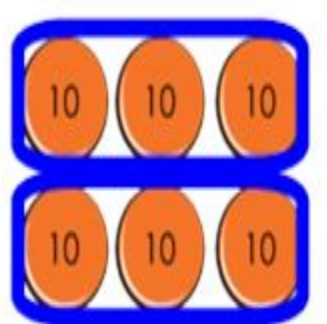
$6 \div 3 = 2$

$2 \times 30 = 60$

$30 \times 2 = 60$

$3 \times 20 = 60$

$20 \times 3 = 60$

$60 \div 3 = 20$

$60 \div 20 = 3$

$60 \div 2 = 30$
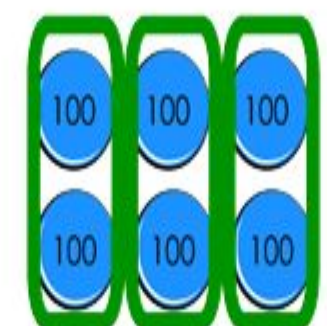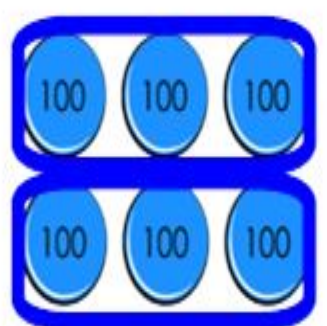
$60 \div 30 = 2$

$2 \times 300 = 600$

$300 \times 2 = 600$

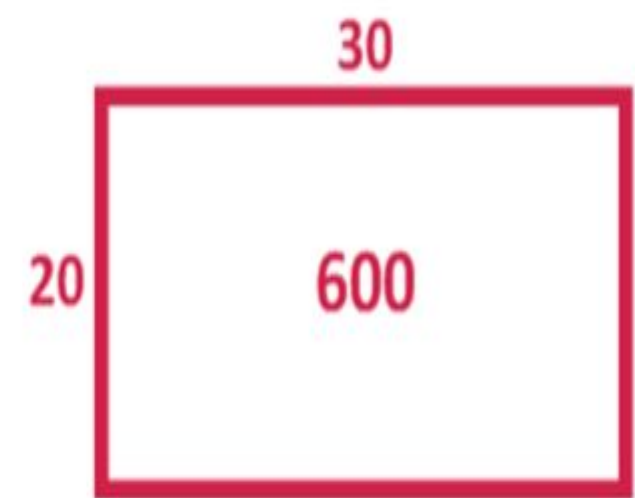$3 \times 200 = 600$

$200 \times 3 = 600$

$600 \div 3 = 200$

$600 \div 200 = 3$

$600 \div 2 = 300$

$600 \div 300 = 2$

$20 \times 30 = 600$

$30 \times 20 = 600$

30

20   600

$600 \div 30 = 20$
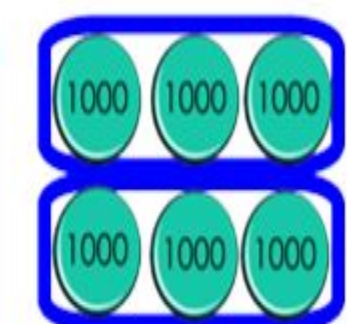
$600 \div 20 = 30$

$2 \times 3000 = 6000$

$3000 \times 2 = 6000$

$3 \times 2000 = 6000$

$2000 \times 3 = 6000$
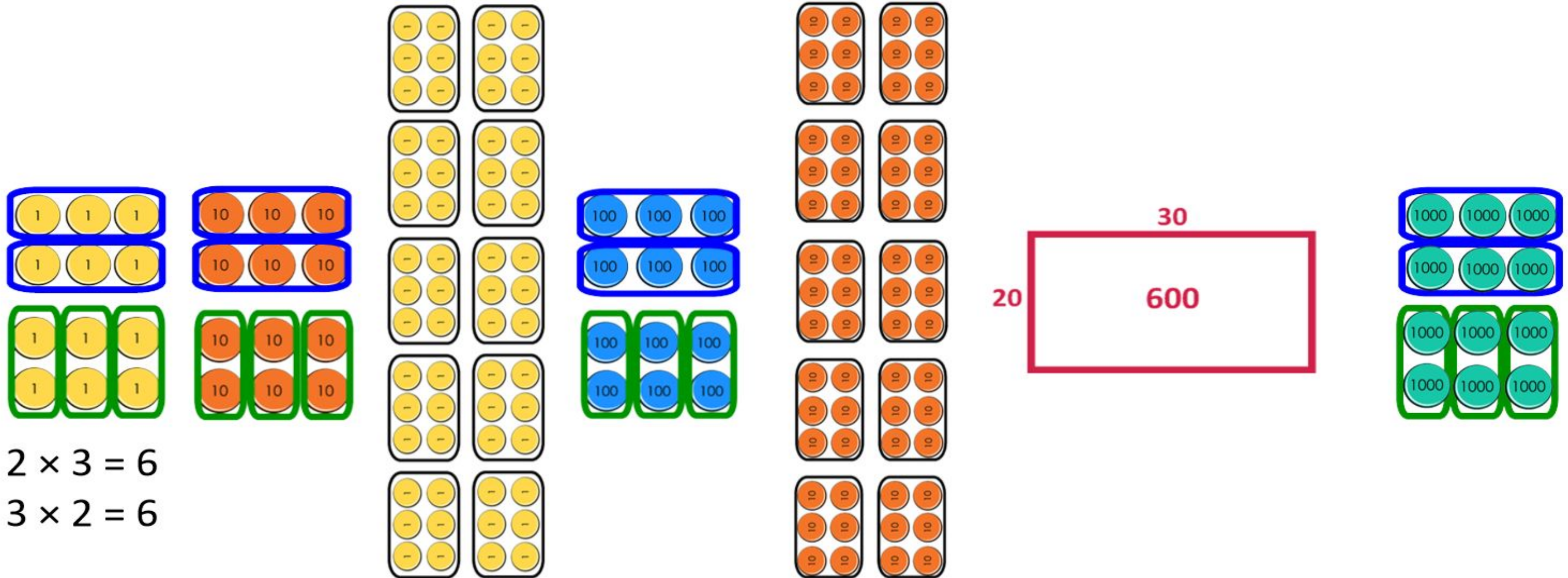
$6000 \div 2 = 3000$

$6000 \div 3000 = 2$

$6000 \div 3 = 2000$

$6000 \div 2000 = 3$

Record and explain the facts derived from a the known fact.

Now it is your turn! Choose a simple known fact and start to record all of the multiplication and division facts derived from it!

$2 \times 3 = 6$

$3 \times 2 = 6$

30

20   600

Challenge Slide - Reasoning

Can you approximate the value of the arrows on the number line? Can you explain how you know?