

## Week 2

### This week in a nutshell:

This week has a mixture of topics from last year and introduces some recently acquired skills in relation to rounding. Throughout the term, these rounding skills will be used further, so dealing with misconceptions is key. As understanding the reasoning behind effective rounding is important for method fluency, there may need to be a focus on place value diagrams with some students.

**Question 1:** Rounding to nearest integer

**Question 2:** Multiplication & division (mental methods)

**Question 3:** Rounding to powers of ten

**Question 4:** Patterns and sequences

**Question 5:** Reading coordinates

The questions aim to develop and deepen understanding over the week. Due to the necessity of the topics covered this week, there is an emphasis on the interchangeability of command words, and language flexibility. It may be worth taking some extra time this week to make sure your students are developing their mathematical literacy.

### This week's ideas for class discussion include:

Question 1: **Rounding to nearest integer**

- Why might we need to round a number?

Question 2: **Multiplication & division (mental methods)**

- Can you explain to someone how you would solve " $9 \times 11$ " in your head?

Question 3: **Rounding to powers of ten**

- What do you know about powers of ten and our number system?

Question 4: **Patterns and sequences**

- Are patterns the same as sequences (and vice versa)? Explain your thinking?
- Do you know any famous visual patterns/sequences?

Question 5: **Reading coordinates**

- How do you remember the order we write a coordinate pair?

## Week 2: Day 1

1) Round 3.4 to the nearest integer.

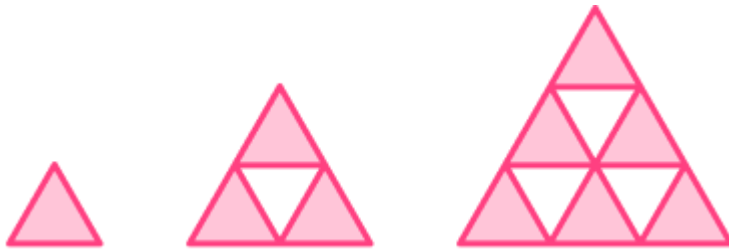
2) Work out:

a)  $15 \times 5$

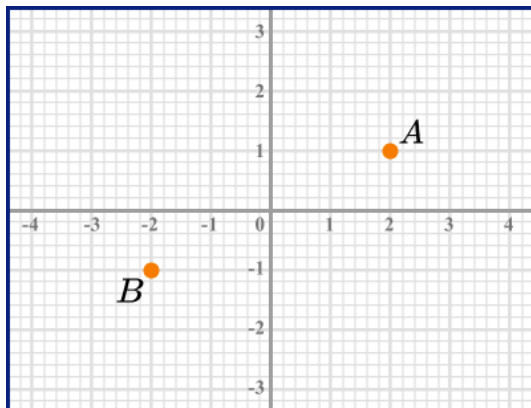
b)  $144 \div 6$

3) Round 147 to the nearest 10.

4) Sketch the next shape in the sequence:



5) Write the coordinates of A and B.



## Week 2: Day 1 Answers

- 1) Round 3.4 to the nearest integer.

3

- 2) Work out:

c)  $15 \times 5$  75

d)  $144 \div 6$  24

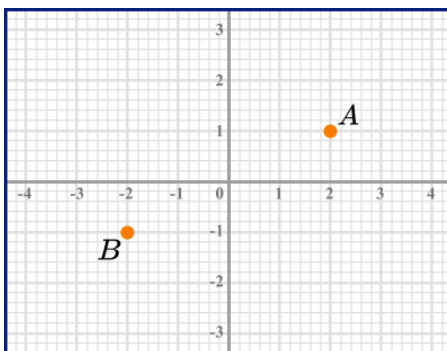
- 3) Round 147 to the nearest 10.

150

- 4) Sketch the next shape in the sequence:



- 5) Write the coordinates of A and B.



A(2, 1), B(-2, -1)

## Week 2: Day 2

1) Round 9.81 to the nearest integer.

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2) **Work out:**

a)  $3 \times 17$

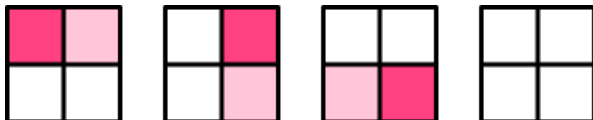
b)  $639 \div 9$

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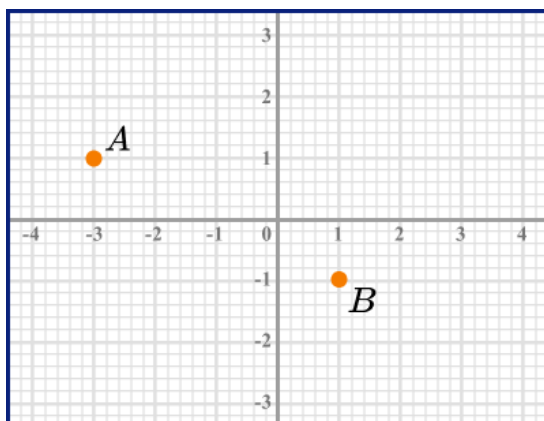
3) Round 5454 to the nearest 100.

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4) Shade the fourth square so that the sequence is correct.



5) Write the coordinates of A and B.



## Week 2: Day 2 Answers

- 1) Round 9.81 to the nearest integer.

10

- 2) Work out:

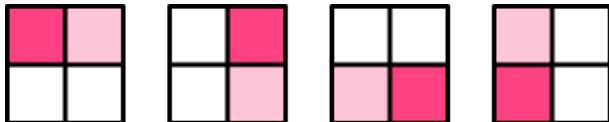
c)  $3 \times 17$  51

d)  $639 \div 9$  71

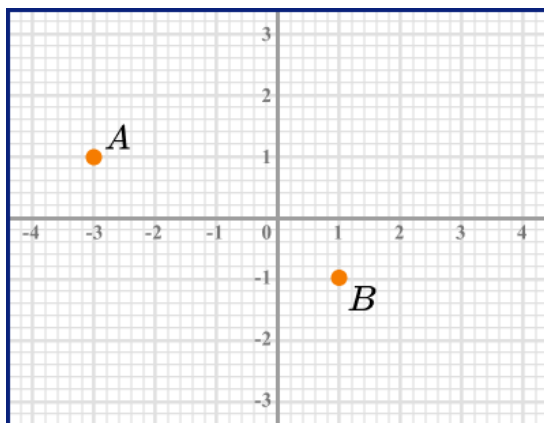
- 3) Round 5454 to the nearest 100.

5500

- 4) Shade the fourth square so that the sequence is correct.



- 5) Write the coordinates of A and B.



A(-3, 1), B(1, -1)

## Week 2: Day 3

1) Round 0.099 to the nearest integer.

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2) **Work out:**

a)  $29 \times 4$

b)  $1250 \div 25$

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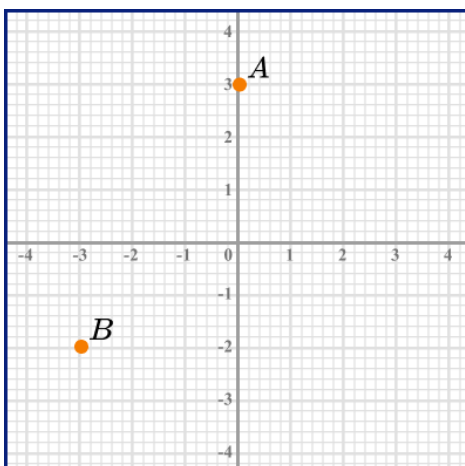
3) Round 36299 to the nearest 1000.

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4) Draw the next arrow in this sequence.



5) Write the coordinates of A and B.



## Week 2: Day 3 Answers

- 1) Round 0.099 to the nearest integer.

0

- 2) Work out:

c)  $29 \times 4$       116

d)  $1250 \div 25$       50

- 3) Round 36299 to the nearest 1000.

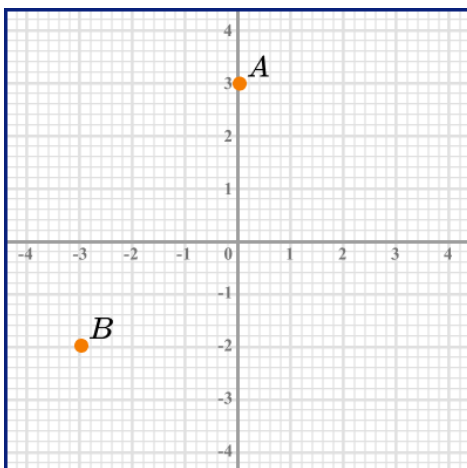
36000

- 4) Draw the next arrow in this sequence.



- 5) Write the coordinates of A and B.

A(0, 3), B(-3, -2)



## Week 2: Day 4

1) Round 17.5 to the nearest integer.

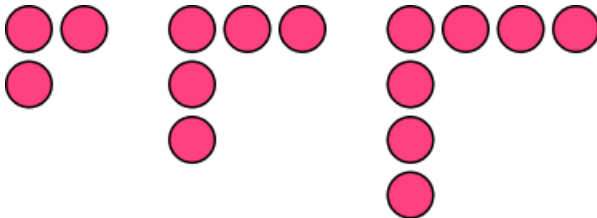
2) **Work out:**

a)  $49 \times 6$

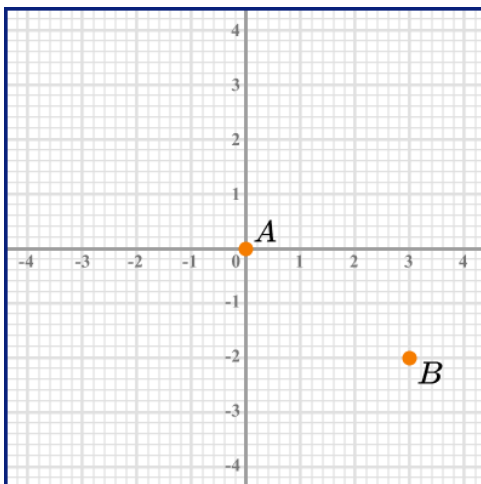
b)  $5600 \div 70$

3) Round 35.03 to the nearest 10.

4) Draw the next shape in this sequence.



5) Write the coordinates of A and B.





## Week 2: Day 4 Answers

- 1) Round 17.5 to the nearest integer.

18

- 2) **Work out:**

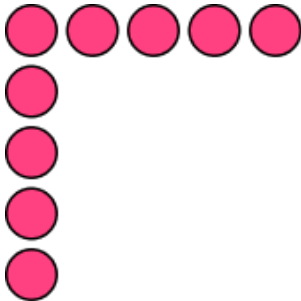
a)  $49 \times 6$       294

b)  $5600 \div 70$       80

- 3) Round 35.03 to the nearest 10.

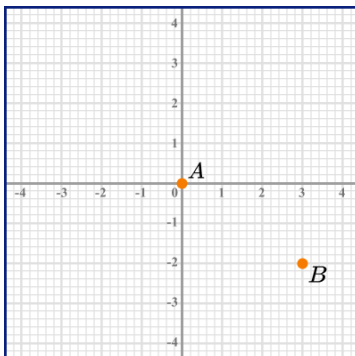
40

- 4) Draw the next shape in this sequence.



- 5) Write the coordinates of A and B.

A(0, 0), B(3, -2)



## Week 2: Day 5

1) Round 5.45 to the nearest integer.

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2) **Work out:**

a)  $2 \times 3 \times 4 \times 5$

b)  $147 \div 7$

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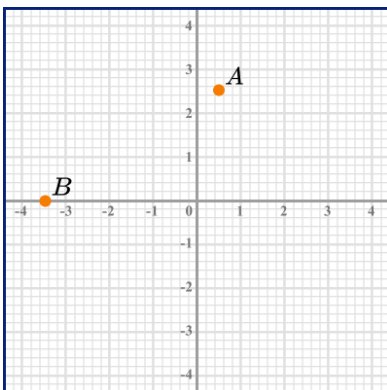
3) Round 269916 to the nearest 1000.

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4) Draw the next shape by predicting the sequence.



5) Write the coordinates of A and B.



## Week 2: Day 5 Answers

- 1) Round 5.45 to the nearest integer.

5

- 2) **Work out:**

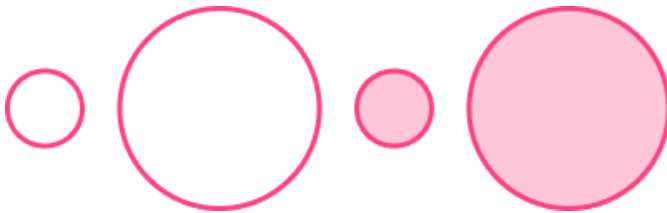
a)  $2 \times 3 \times 4 \times 5$      120

b)  $147 \div 7$      21

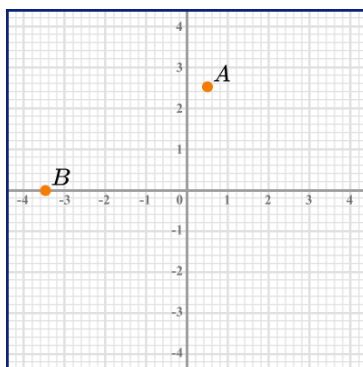
- 3) Round 269916 to the nearest 1000.

270000

- 4) Draw the next shape by predicting the sequence.



- 5) Write the coordinates of A and B.



A(0.5, 2.5), B(-3.5, 0)

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