Steady Steps Maths

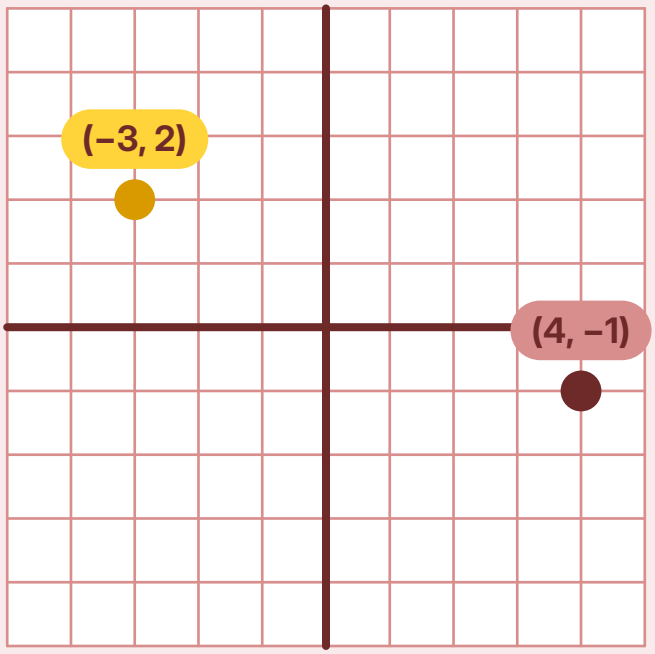
FREE SAMPLE WORKSHEET · TOPIC 6

FREE SAMPLE

Integers & the Coordinate Plane

Free sample worksheet · with answers

GRADE 6



Common Core 6.NS.C.5–8

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Name _____ Date _____

Quick recap

The big idea from each pack in this topic. Read it first, then try the questions.

Learn it · Pack 1 · Negative numbers

Numbers below zero are negative: 8 m below sea level is **−8**.
Opposites are the same distance from 0 on each side: the opposite of −5 is **5**.

Learn it · Pack 2 · Absolute value

The absolute value is the distance from 0, so it is never negative.
$|-7| = 7$ and $|7| = 7$.

Learn it · Pack 3 · Comparing

On a number line, numbers get bigger to the right.
$-2 > -9$ because −2 is further right. In order: −9, −2, 0, 4.

Learn it · Pack 4 · The coordinate plane

Write (x, y): across first, then up or down.
(−3, 2) is 3 left and 2 up, in Quadrant II.

PACK 1 Positive & Negative Numbers

1 Write an integer for a temperature of 12 degrees below zero.

Answer

2 What is the opposite of 15?

Answer

3 Write the numbers shown by A and B.



Answer

4 Which integer is 7 units to the left of 2 on a number line?

Answer

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PACK 2 Absolute Value

5 Work out $|-18|$.

Answer

6 Write <, > or =: $|-6|$ ○ $|4|$

Answer

7 Which two numbers have an absolute value of 9?

Answer

8 Lina's account balance is −25. Sami's is −40. Who owes more money?

Answer

PACK 3 Comparing & Ordering

9 Write < or >: −4 ○ −11

Answer

10 Order from smallest to largest: 3 −7 0 −1.5 −2

Answer

11 Write < or >: −0.5 ○ −0.25

Answer

12 Which is colder: −13 °C or −8 °C?

Answer

PACK 4 The Coordinate Plane

13 In which quadrant is the point (−4, −6)?

Answer

14 Reflect the point (5, −2) in the x-axis. Write the new point.

Answer

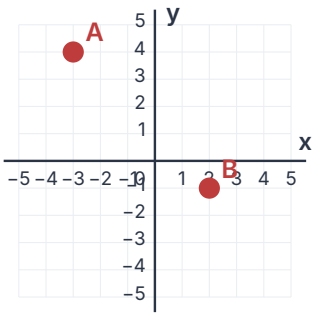
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15 How far apart are the points (−3, 4) and (6, 4)?

Answer

16 Write the coordinates of A and B.



Answer

Real life

Read carefully, then show your working

17 At 6 am the temperature was −7 °C. By noon it had risen 12 degrees.
(a) What was the temperature at noon? (b) At night it fell to −4 °C. Which was colder: 6 am or night? Explain.

Answer

18 A rectangle has vertices (−4, 3), (2, 3) and (2, −1).
(a) Write the fourth vertex. (b) Find the perimeter and the area of the rectangle.

Answer

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Answer key

For parents · check the steps as well as the final answer

Pack 1	**1)** −12 **2)** −15 **3)** A = −5, B = 3 **4)** −5
Pack 2	**5)** 18 **6)** > **7)** 9 and −9 **8)** Sami ($\lvert -40 \rvert = 40 > 25$)
Pack 3	**9)** > **10)** −7, −2, −1.5, 0, 3 **11)** < **12)** −13 °C
Pack 4	**13)** Quadrant III **14)** (5, 2) **15)** 9 units **16)** A(−3, 4), B(2, −1)
Real life	**17)** (a) 5 °C (b) 6 am, because −7 < −4 **18)** (a) (−4, −1) (b) sides 6 and 4: perimeter 20 units, area 24 square units

Tip: A quick number line sketch sorts out most mix-ups with negative numbers. Encourage your child to draw one.

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Enjoyed this sample?

This sheet has 18 questions. The full topic has 152, plus 10 unit tests.

Everything a Grade 6 student needs on negative numbers: integers in real life, opposites, number lines, absolute value, comparing and ordering, and plotting points and finding distances in all four quadrants.

What you get	What's inside	Questions
Pack 1 · Positive & Negative Numbers	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 6.NS.C.5–6	35
Pack 2 · Absolute Value	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 6.NS.C.7	39
Pack 3 · Comparing & Ordering	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 6.NS.C.7a–b	34
Pack 4 · The Coordinate Plane	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 6.NS.C.6, 6.NS.C.8	44
Complete Topic book	All 4 packs in one book with a contents page	152
10 Unit Tests (A–J)	40 marks each, about 40 minutes, with a mark scheme and a "what to revise" table. **Test A is free.**	18 per test

How to use this sample

1. Let your child read the recap page and try the questions on their own.
2. Mark together with the answer key. Each section shows which pack it comes from.
3. If a section felt hard, that pack is the place to start. If it all felt easy, try the free Unit Test A.

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