RUSLI PREP
TEST PREP & TUTORING

FREE PRACTICE PACKET · GRADE 7

Adding, Subtracting, Multiplying & Dividing Integers

Absolute value, comparing integers, all four operations and real-world problems

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Tips for parents

A number line (or a thermometer) makes negative numbers make sense. Remember the sign rules for multiplying and dividing: same signs give a positive answer, different signs give a negative answer. Subtracting a negative is the same as adding a positive.

Made by Tim Rusli, Math & Physics Tutor in Union, NJ · Aligned to NJ Student Learning Standards 7.NS.A.1, 7.NS.A.2 and 7.NS.A.3

Name _____ Date _____

Part A · Warm-up

Absolute value is a number's distance from 0, so it is never negative. On a number line, numbers get bigger as you move right.

Example $|-7| = 7$ because -7 is 7 steps from 0. $-8 < -3$ because -8 is farther left.

Find each value.

1. $|-7| =$

2. $|12| =$

3. The opposite of $-15 =$

4. $|-3| + |5| =$

Write < or > in the box.

5. $-8 \square -3$

6. $-2 \square -10$

7. $0 \square -5$

8. $-6 \square 4$

Name _____ Date _____

Part B · Operations with integers

Adding: same signs, add and keep the sign; different signs, subtract and take the sign of the larger.
Subtracting: add the opposite.

Example $-4 - (-11) \rightarrow -4 + 11 = 7$ $-5 \times (-7) = 35$ (same signs, positive)

1. $-7 + 12 =$
2. $-9 + (-6) =$
3. $8 - 15 =$
4. $-4 - (-11) =$
5. $-3 \times 6 =$
6. $-5 \times (-7) =$
7. $-48 \div 6 =$
8. $-56 \div (-8) =$
9. $15 + (-22) =$
10. $-20 - 5 =$
11. $(-2) \times (-3) \times (-4) =$
12. $-36 \div (-4) + (-5) =$

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Name _____ Date _____

Part C · Word problems

Decide which direction is positive (up, gain, deposit) and which is negative (down, loss, withdrawal).

1. At 6 a.m. the temperature was −4°F. By noon it rose 11 degrees. What was the temperature at noon?

   Answer: _____

2. A submarine is at −120 feet. It rises 45 feet. What is its new depth?

   Answer: _____

3. A stock loses $3 in value each day for 5 days. What is the total change in its value?

   Answer: _____

4. A football team gains 8 yards, loses 12 yards, then gains 5 yards. What is the total change?

   Answer: _____

5. Jay says −6 − (−4) = −10. Is he right? Explain.

Challenge Two integers have a product of −24 and a sum of 2. What are they?

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Answer key

Answers are shown in simplest form.

Part A

A1	**7**
A2	**12**
A3	**15**
A4	3 + 5 = **8**
A5	**<**
A6	**>**
A7	**>**
A8	**<**

Part B

B1	**5**
B2	**−15**
B3	**−7**
B4	**7**
B5	**−18**
B6	**35**
B7	**−8**
B8	**7**
B9	**−7**
B10	**−25**
B11	**−24**
B12	9 + (−5) = **4**

Part C

C1	−4 + 11 = **7°F**
C2	−120 + 45 = **−75 feet**
C3	5 × (−3) = **−15** dollars, a $15 loss
C4	8 − 12 + 5 = **+1 yard**
C5	No. Subtracting a negative means adding: −6 + 4 = **−2**.
★	**6 and −4** (6 × (−4) = −24 and 6 + (−4) = 2)

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NEED A LITTLE MORE HELP?

One-on-one tutoring with Tim Rusli

I'm a Math and Physics tutor in Union, NJ with a Bachelor's in Applied Mathematics from Rutgers. I break hard problems into small, clear steps so students build real confidence, from elementary math to SAT Math, Calculus and Physics.

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