

Math 8 Chapter 2 Rev Pack v1**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- _____ 1. Write a multiplication expression for $(-6) + (-6) + (-6)$.
A. -18 B. $(-3) \times (-6)$ C. $(+3) \times (-6)$ D. $+18$
- _____ 2. Write a multiplication expression for $(-14) + (-14) + (-14) + (-14) + (-14)$.
A. $(+5) \times (-14)$ B. $(-5) \times (-14)$ C. -70 D. $+70$
- _____ 3. This tile models $+1$. This tile models -1 .
Jon gave Alicia 5 sets of 10 $(+1)$ -tiles.
How many, and in what colour, are the tiles that Alicia received?
A. 15 black tiles B. 50 black tiles C. 15 white tiles D. 50 white tiles
- _____ 4. Find the product $(-7) \times (+4)$. Use a number line if necessary.
A. 28 B. -28 C. 3 D. -3
- _____ 5. Find the product of -4 and -7 .
A. -11 B. -28 C. $+28$ D. $+11$
- _____ 6. Replace with an integer to make the equation true.
 $\times (-5) = -30$
A. $+6$ B. -6 C. -25 D. $+25$
- _____ 7. Replace with an integer to make the equation true.
 $(+30) \times$ $= -150$
A. $+5$ B. -5 C. -120 D. $+120$

- _____ 8. Find this product. $(+5)(-3)$
 A. -13 B. -17 C. -15 D. $+25$
- _____ 9. Find this product. $(-7)(-4)$
 A. $+26$ B. $+27$ C. $+30$ D. $+28$
- _____ 10. A deep-sea diver must descend and ascend in short steps to equalize pressure on his body. Suppose a diver started at 27 m below the water surface and rose in 5 steps of 5 m each. Use an integer to describe his new position in relation to the water surface.
 A. -2 m B. $+2$ m C. $+25$ m D. -25 m
- _____ 11. Use the integers $+4$, -6 , $+5$, $+8$, and -7 . Which 2 integers have the least product?
 A. $(-6) \times (-7)$ B. $(+8) \times (-7)$ C. $(+4) \times (-6)$ D. $(+4) \times (+5)$
- _____ 12. Which of these products are positive?
 i) $(+3)(-8)(+9)$
 ii) $(-4)(+9)(-8)$
 iii) $(-8)(-9)(+4)$
 iv) $(-3)(-9)(-4)$
 A. i and iv B. ii and iii C. ii, iii, and iv D. i and ii
- _____ 13. Write the integer division modelled by this number line.
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- A. $(-21) \div (-3) = +7$ C. $(-21) \div (+7) = -3$
 B. $(-21) \div (+3) = -7$ D. $(+21) \div (+3) = +7$
- _____ 14. Find the quotient $(+8) \div (-1)$. Use a number line or tiles if it helps.
 A. $+7$ B. $+8$ C. -8 D. $+9$

Name: _____

ID: A

- ____ 15. Find the quotient $(-18) \div (+6)$. Use a number line if it helps.
A. -3 B. +3 C. -12 D. -24
- ____ 16. Inside a cooling tower, the temperature fell 3°C each hour for a total change of -27°C . Find the number of hours it took for the change in temperature.
A. 9 h B. -9 h C. 24 h D. 27 h
- ____ 17. Find this quotient. $(+28) \div (-7)$
A. -35 B. +4 C. +35 D. -4
- ____ 18. Find this quotient. $(-70) \div (-7)$
A. -63 B. -10 C. +10 D. +63
- ____ 19. Find this quotient. $(+40) \div (-8)$
A. +5 B. -5 C. -320 D. +320
- ____ 20. Find this quotient. $(-156) \div (+12)$
A. -13 B. -12 C. -15 D. -8
- ____ 21. Find this quotient. $(+54) \div (+9)$
A. +63 B. -6 C. +6 D. -63
- ____ 22. Divide. $(-60) \div (+2)$
A. -58 B. -30 C. +30 D. +58
- ____ 23. Divide. $\frac{+40}{-10}$
A. +30 B. +4 C. +50 D. -4

Name: _____

ID: A

- _____ 24. Divide. $\frac{-66}{+3}$
A. -22 B. -69 C. +22 D. -63
- _____ 25. One day at 3 p.m., the temperature was -6°C in a city in Alaska.
At 10 p.m., the temperature was -20°C .
What was the average change in temperature per hour?
A. -4°C B. -3°C C. -2°C D. -14°C
- _____ 26. Evaluate. $9 + (-7) - (-4)$
A. 6 B. -2 C. 12 D. 20
- _____ 27. Evaluate. $(-4) \times (-15) \div 6$
A. -25 B. -10 C. 10 D. -17
- _____ 28. Evaluate. $6 \times (2 - 8) + 4$
A. -32 B. 8 C. -31 D. 7
- _____ 29. Evaluate. $3 \times 8 - 6 \times (-5)$
A. 30 B. -6 C. 54 D. -30
- _____ 30. Evaluate. $-13 + 9 \div (-3) + 9$
A. 1 B. -1 C. 7 D. -7

Short Answer

31. Find the product of -3 and -20 .

32. Which products are negative?
- a) $(+4) \times (-23)$
 - b) $(-7) \times (-18)$
 - c) $(-4) \times (+23)$
 - d) $(+4) \times (-7)$
33. The sum of the daily low temperatures over a period of 4 days was -40°C . What was the mean daily low temperature during this period?
34. Predict the sign of this quotient. $(-68) \div (+6)$
35. Write 2 related division equations for $(-12) \times (-11) = +132$.
36. Replace \square with an integer to make the equation true.
 $(+24) \div \square = -3$
37. What integer should you divide 55 by to get a negative integer?
38. Evaluate. $\frac{(7)(9) - (-1)}{8}$

Problem

39. The product of 2 integers is -6 . How many different ways can you write the multiplication equation?

Name: _____

ID: A

40. Write -15 as the product of 2 integers. Find all possible answers.

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41. The product of 3 integers is -24 . The sum of the integers is -12 .
What are the 3 integers? Show your work.

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42. a) Write the next 2 terms in this pattern.
 $+729, -243, +81, -27, \dots$
b) Describe how you get to the next term.

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43. Find 2 integers that make this statement true. Give at least 2 answers.
 $(+144) \div \square \div \square = -1$