Integer Worksheet

Multiple Choice

_____   1. Determine which multiplication statement is equivalent to the following addition statement.
$(-5) + (-5) + (-5) + (-5)$
a. 4×5 c. -4×5
b. $4 \times (-5)$ d. $-4 \times (-5)$

_____   2. Determine $-5 \times (-10) \times (-2)$.
a. -100 c. 25
b. -50 d. 125

_____   3. Greg lives near the ocean. One evening, the temperature gets colder by an average of 3 °C every two hours. Determine the change in temperature after six hours.
a. -6 °C   c. -12 °C
b. -9 °C   d. -18 °C

_____   4. Multiply -3×6.
a. 2   c. 18
b. -2 d. -18

_____   5. Evaluate $12 \times (-4)$.
a. 3   c. 48
b. -3 d. -48

_____   6. A submarine dives at a rate of 16 m/min for eight minutes. How far does the submarine dive?
a. 2 m   c. 128 m
b. -2 m   d. -128 m

_____   7. A parking lot charges cars $3/hour to park. Determine the charge for parking for six hours.
a. $2   c. $18
b. $-$2   d. $-$18

_____   8. A dolphin can dive at a rate of 20 m in ten seconds. Determine the dolphin's rate of descent.
a. 2 m/s   c. 20 m/s
b. 10 m/s   d. 24 m/s

_____   9. A stock decreased in price by $60 over five days. Determine the mean daily decrease in price.
a. $5/day   c. $20/day
b. $12/day   d. $30/day

_____   10. A diver rose a total of 45 m in five equal stages. What distance did the diver rise during each stage?
a. 5 m   c. 10 m
b. 9 m   d. 12 m

11. Martina improved her math mark by 2% on each of six tests. How much higher was her mark on the last test than on the first?

    a. 4%   c. 12%
    b. 8%   d. 16%

12. The temperature increased from 4 °C to 12 °C in four hours. Determine the average hourly temperature increase.

    a. 2 °C/h   c. 4 °C/h
    b. 3 °C/h   d. 6 °C/h

13. Evaluate $-24 \div (-3)$.

    a. 8   c. 72
    b. -8 d. -72

14. Evaluate $-72 \div (-8) \div (-3)$.

    a. 2   c. 3
    b. -2 d. -3

15. Suppose $\dfrac{x}{-4} = 12$. Determine the value of x.

    a. 3   c. 48
    b. -3 d. -48

16. A hot-air balloon rises 7500 m in ten minutes. What is the rate of increase for the balloon?

    a. 7.5 m/min   c. 750 m/min
    b. 75 m/min   d. 7500 m/min

17. Complete $-8 - (-9) + 11$.

    a. -6 c. 10
    b. -10 d. 12

18. Evaluate $7 - (-5) \times 3$.

    a. 105   c. 22
    b. 36   d. 9

19. Determine $25 - (-10) \div (-5)$.

    a. -3 c. 10
    b. -7 d. 23

20. Evaluate $-8 - 3(-2 - 1)$.

    a. -14 c. 1
    b. -5 d. 21

21. Determine $-8 - (-6) \times 3 - 5 \times (-3)$.

    a. 9   c. 25
    b. -9 d. -25

_____ 22. Suppose you subtract –7 from the quotient of –16 and –4. What is the answer?
    a.   3   c.   11
    b.   –3   d.   –11

_____ 23. Determine the result of subtracting 12 from the product of –7 times 6, dividing the answer by 2, and then subtracting –8.
    a.   –19   c.   9
    b.   –11   d.   14

_____ 24. The sum of a set of three consecutive odd integers is –21. What is the least integer in the set?
    a.   –5   c.   –9
    b.   –7   d.   –11

Completion

25. If you subtract –8 from the product of –9 and 4, you get _____.

26. If you take the product of –9 and –7, divide it by –3, and then subtract –5 from it, the answer is

_____.

27. When a positive number is multiplied by a negative number, the result is a _____ number.

28. When a positive number is multiplied by a positive number, the result is a _____ number.

29. When a negative number is multiplied by a negative number, the result is a _____ number.

30. When a negative number is divided by a positive number, the result is a _____ number.

31. When a negative number is divided by a negative number, the result is a _____ number.

Short Answer

.

32. Determine each product.
    a) 5×9 **b)** $–4 \times 7$

    c) $9 \times (–8)$ **d)** $–3 \times (–14)$

33. Evaluate each expression.
    a) $4 \times 5 \times (-5)$ **b)** $-3 \times (-6) \times 4$

    c) $7 \times (-4) \times (-2)$ **d)** $-2 \times (-11) \times (-3)$

34. Determine each quotient.
    a) $12 \div 4 \div 3$ **b)** $-42 \div 7 \div 3$

35. What is the value of x?
    a) $\dfrac{-36}{3} = x$ **b)** $\dfrac{x}{20} = -2$

36. Evaluate each expression.
    a) $-10 + (-12) - 9$ **b)** $-6 - 3 \times 2$

    c) $14 - (-21) \div (-7)$ **d)** $11 \times 6 \div (-3)$

37. Determine each product.
    a) $3 \times (-2) \times 4 \times (-2)$ **b)** $-5 \times (-1) \times (-2) \times 7$