3.1 Multiply and Divide Integers

MATH 7

Multiplication =

You buy 3 tickets for $5 each. How much did you spend?

Notation:

$3(5)$	$3(-5)$	$-3(5)$	$-3(-5)$

MULTIPLICATION RULES

When multiplying if the signs are the same the product is

When multiplying if the signs are different the product is

$(-2)(-4)$	-4×3	$3 \cdot 6$	-4×0	$2(-5)(-3)$

Division =

You paid $15 for 3 hours tickets. How much did each ticket cost?

Notation:

$15 \div 3$	$\dfrac{-24}{4}$	$-12 \div 3$	$-20 \div (-4)$
$\dfrac{28}{-7}$	$9 \div 1$	$9 \div 0$	$\dfrac{4(-3)}{2}$

SUMMARY:

3.1 Multiply and Divide Integers

Perform the indicated operation.

1. $3 \times 5 =$

2. $36 \div (-12) =$

3. $-40 \div (-10) =$

4. $-6 \times 0 =$

5. $(6)(-10) =$

6. $-55 \div 5 =$

7. $\frac{63}{9} =$

8. $-6 \div (-1) =$

9. $(-4)(-10) =$

10. $10 \times (-3) =$

11. $\frac{-24}{12} =$

12. $33 \div (-3) =$

13. $8 \times (-2) =$

14. $-21 \div (-3) =$

15. $9 \times (-4) =$

16. $3 \cdot 8 =$

17. $10(-4) =$

18. $-5 \times (-9) =$

19. $\frac{-40}{-5} =$

20. $1 \div (-1) =$

21. $12 \div (-3) =$

Perform the indicated operations.

22. $3 \times 5 =$

23. $36 \div (-12) =$

24. $-40 \div (-10) =$

25. $-6 \times 0 =$

26. $(6)(-10) =$

27. $-55 \div 5 =$

Write a multiplication expression for each situation. Answer the question.

28. Karla borrowed $5 each from 4 different friends. How much money does Karla owe her friends altogether?

Expression: Answer:

29. The temperature increased 2° per hour for six hours. How many degrees did the temperature raise after six hours?

Expression: Answer:

30. Jim was deep sea diving last week. He descends 3 feet every minute. How many feet will he descend in 10 minutes?

Expression: Answer:

Write a division expression for each situation. Answer the question.

31. Keith borrowed a total of $30 by borrowing the same amount of money from 5 different friends. How much money does Keith owe each friend?

Expression: Answer:

32. The temperature fell 12° over 4 hours. What was the average change in temperature per hour?

Expression: Answer:

33. Max lost 24 pounds in 8 weeks on his new weight-loss plan. What was his average change in weight per week?

Expression: Answer:

34. Juan borrowed $4 a day until he had borrowed a total of $88. For how many days did he borrow money?

 Expression: Answer:

1. Perform the indicated operation.

$$-8(-3)$$

2. Perform the indicated operations.

$$-5(-3)(4)$$

3. Decide whether the following expressions are equal. Support your answer!

A) $-4(6) = 3(-8)$

B) $3 \cdot 10 = (-6)(5)$

C) $5(-2)(2) = -4 \cdot 5$

4. Fill in the question mark with an integer to make following expressions equal. Support your answer!

A) $-3 \cdot 6 = 9(?)$

B) $4(-9) = ? \cdot (-6)$

C) $-5(-?) = 2(20)$

EXIT TICKET –

SPRING ROUND!!!!   How fast are you???

Go to Deltamath.com for some speed rounds. Once finished, show Mr. Brust and he will sign off below.

GOOD LUCK!!!