

* Answer all questions on separate paper! *

Name: _____

Skill and Concept Check

2. **OPEN ENDED** Write two integers whose product is negative.
3. **Which One Doesn't Belong?** Identify the product that is not positive. Explain your reasoning.

3×4

$-5 \times (-2)$

$-8(6)$

$-3(-7)$

GUIDED PRACTICE

Multiply.

$4. 4 \times (-7)$

$5. 8(-7)$

$6. 4 \times 4$

$7. 9(3)$

$8. -1 \times (-7)$

$9. -7(-6)$

10. **SCIENCE** For each kilometer above Earth's surface, the temperature decreases 7°C . If the temperature at Earth's surface is 0°C , what will the temperature be 2 kilometers above the surface?

Practice and Applications

Multiply.

$11. 6 \times (-6)$

$12. 9 \times (-1)$

$13. 7(-3)$

$14. 2(-10)$

$15. -7 \times 5$

$16. -2 \times 9$

$17. -5(6)$

$18. -6(9)$

$19. 8 \times 7$

$20. 9(4)$

$21. -5 \times (-8)$

$22. -9 \times (-7)$

$23. -6(-10)$

$24. -1(-9)$

$25. -7 \times 7$

26. Find the product of -10 and 10 .

27. **ALGEBRA** Evaluate st if $s = -4$ and $t = 9$.

28. **ALGEBRA** Find the value of ab if $a = -12$ and $b = -5$.

29. **SCHOOL** A school district loses 30 students per year due to student transfers. If this pattern continues for the next 4 years, what will be the loss in relation to the original enrollment?

HOMEWORK HELP

For Exercises	See Examples
11-18, 26-27	1, 2
19-25, 28	3, 4
29, 33	5

Extra Practice
See pages 610, 631.

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33. **SCIENCE** In 1990, Sue Hendrickson found the T-Rex fossil that now bears her name. To excavate the fossil, her team had to remove about 3 cubic meters of dirt each day from the site. Write an integer to represent the change in the amount of soil at the site at the end of 5 days.

MULTI STEP Find the value of each expression.

34. $3(-4 - 7)$

35. $-2(3)(-4)$

36. $-4(5 + (-9))$

Tell whether each sentence is *sometimes*, *always*, or *never* true. Give an example or counterexample for each.

37. The product of two positive integers is negative.
38. A negative integer multiplied by a negative integer is positive.
39. The product of a positive integer and a negative integer is negative.
40. The product of any three negative integers is negative.
41. **CRITICAL THINKING** The product of 1 times any number is the number itself. What is the product of -1 times any number?



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