

Write a number sentence with two variables to describe the general pattern.

1. $3(15 + 9) = (3 * 15) + (3 * 9)$
 $3(5 + 1) = (3 * 5) + (3 * 1)$
 $3(0.25 + 0.75) = (3 * 0.25) + (3 * 0.75)$
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2. $10 * (2 * 4) = 2 * (10 * 4)$
 $10 * (8 * 5) = 8 * (10 * 5)$
 $10 * (0.3 * 0.8) = 0.3 * (10 * 0.8)$
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3. $0.4(1.05 - 3) = (0.4 * 1.05) - (0.4 * 3)$
 $0.4(5.23 - 1.7) = (0.4 * 5.23) - (0.4 * 1.7)$
 $0.4(17 - 6) = (0.4 * 17) - (0.4 * 6)$
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Use digits to write the following numbers.

4. nine and twenty-three hundredths _____
5. sixteen and four-ninths _____
6. eleven and four hundred eighteen thousandths _____
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Complete each pattern. Note: There may be more than one operation per pattern set.

7. 12, 15, 11, 14, _____, _____, 9
8. _____, _____, 46, 36, 26, _____, _____
9. 54, 59, 67, _____, 80, _____, _____, _____
10. 29, 34, 39, _____, 49, _____, _____
11. 14, _____, 16, 8, 18, _____, _____, 12



Solve.

12.
$$\begin{array}{r} 59 \\ * 59 \\ \hline \end{array}$$

13. $33 \overline{)835}$

14.
$$\begin{array}{r} 28 \\ * 25 \\ \hline \end{array}$$

15. $71 \overline{)390}$

16. $97 \overline{)4,598}$

17. $6 \overline{)395}$

18.
$$\begin{array}{r} 200 \\ * 56 \\ \hline \end{array}$$

19. $46 \overline{)3,318}$

20. Coach Rivera wants to put the 76 sixth graders in teams for a volleyball tournament. How many teams of 9 can he form?

21. Javier was married at the age of 28. In 3 more years, he will have been married 25 years. How old is Javier?

Complete.

22. $10^{10} =$ _____

23. $100 * 100 * 100 * 100 * 100 = 10^{\square}$

24. $10^{\square} = 10,000,000,000,000$

25. $10 * 10^2 = 10^{\square} =$ _____

Round each number to the nearest thousandth.

26. 3.9025 _____

27. 78.2953 _____

28. 3.2871 _____

29. 6.0208 _____

30. 3.4798 _____

31. 26.2149 _____

Tell whether each number is *prime* or *composite*.

32. 31 _____

33. 57 _____

34. 111 _____

35. 19 _____