

different signs = negative

same signs = positive

USING PROPERTIES Find the product. Write fractions in simplest form (See Example 3.)

34. $2 \times 13 \times (-5)$

-130

35. $4 \cdot (-3) \cdot 25$

-300

36. $(\frac{1}{2})(7)(16)$

56

▶ 37. $\frac{1}{5} \cdot \frac{3}{8} \cdot (-5)$

$-\frac{3}{8}$

38. $0.01(4.6)(-200)$

-9.2

39. $(-17.2 \times 2.5) \times 4$

-43.04
-172

40. $(-\frac{5}{9} \times \frac{2}{7}) \times (-\frac{7}{2})$

$-\frac{10}{63} \cdot -\frac{7}{2} = \frac{5}{9}$

41. $[-\frac{2}{3} \cdot (-\frac{5}{7})] \cdot (-\frac{9}{4})$

$\frac{10}{21} \cdot -\frac{9}{4} = -\frac{1}{14}$

42. $(-4.5 \cdot 8.61) \cdot (-\frac{2}{9})$

-38.745 = $-\frac{2}{9}$

43. **B.E.S.T. Test Prep** Which fraction is equivalent to $(\frac{3}{4} \cdot \frac{7}{8}) \cdot (-\frac{8}{9})$?

(A) $-\frac{7}{12}$

(B) $-\frac{7}{24}$

(C) $\frac{7}{24}$

(D) $\frac{7}{12}$

8.61

5
MTR

PATTERNS Find the next two numbers in the pattern.

44. 5, 9, 16.2, 29.16, ...

52.488, 94.4784

45. $-\frac{2}{3}, \frac{1}{3}, -\frac{1}{6}, \frac{1}{12}, \dots$

$-\frac{1}{24}, \frac{1}{48}$

46. $-\frac{1}{27}, -\frac{1}{9}, -\frac{1}{3}, -1, \dots$

-3, -9

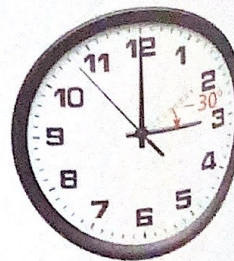
47. 27.44, -19.6, 14, -10, ...

7
MTR

48. **MODELING REAL LIFE** The hour hand of a clock moves -30° every hour. How many degrees does it move in $2\frac{1}{5}$ hours? (See Example 4.)

-66

$-30 \cdot 2\frac{1}{5}$



7
MTR

49. **MODELING REAL LIFE** A 14.5-gallon gasoline tank is $\frac{3}{4}$ full. How many gallons will it take to fill the tank?

$$14.5 \cdot \frac{3}{4} = 10.875$$

$$14.5 - 10.875 = 3.625 \text{ gal}$$

50. **PROBLEM SOLVING** You make \$0.75 for every newspaper you sell. How many newspapers do you have to sell to buy the soccer cleats shown?



51. **OPEN-ENDED** Write two fractions whose product is $-\frac{3}{5}$.

52. **PROBLEM SOLVING** Restaurant A buys 50.5 pounds of yellowtail tuna for \$11.52 per pound. Restaurant B buys 49.8 pounds of yellowtail tuna for \$11.98 per pound. Which restaurant pays more in total for yellowtail tuna?

53. **REASONING** Your friend is training for a 13.1-mile race. Your friend currently runs one mile in 7.2 minutes. Your friend's goal is to run the race in 94 minutes. Will your friend meet their goal? Explain.

NO

$$13.1 \cdot 7.2 = 94.32 > 94$$

almost!

NUMBER SENSE Evaluate the expression when $x = -2$, $y = 3$, and $z = -\frac{1}{5}$.

54. $-\frac{2}{3}y$

55. $x \cdot z$

56. xyz

57. $\frac{1}{3}z^2$

$$-\frac{2}{3} \cdot 3 =$$

$$-2 \cdot -\frac{1}{5} =$$

$$-2 \cdot 3 \cdot -\frac{1}{5} =$$

$$\frac{1}{3} \left(-\frac{1}{5}\right)^2 =$$