
Lesson 5-1: Greatest Monomial Factor

1) What is a factor?

List all the positive factors of the following.

2) 28

3) 60

4) $10y$

5) $8x^2$

6) Find the ten prime numbers between 51 and 100. (Hint: $7 \bullet 13 = 91$)

Write the prime factorization of the following.

7) 110

8) 240

9) $12a^2b$

10) $22x^3y^2$

Find the GCF of the given pairs.

11) 16

40

13) $5x^2$

$20x$

15) $8m^3n^2$

$20mn^3$

12) 56

84

14) $6a^2b$

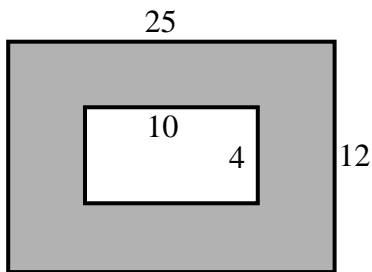
$14a^3bc$

16) $27xy^2z$

$18x^3y^2$

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37) Find the shaded area of the figure below.



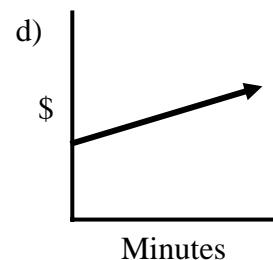
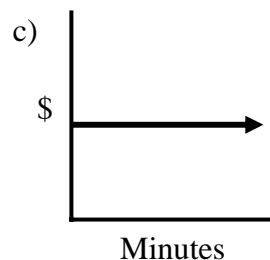
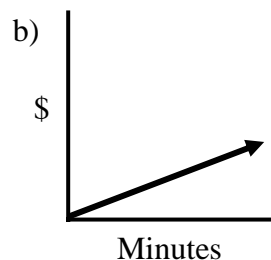
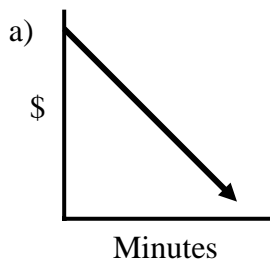
38) Given the linear equation, $2x + 5y = 11$, find the following:

a) slope =

b) y-intercept =

c) x-intercept =

39) Luv2Talk Phone Company charges \$22 a month for service and 10 cents a minute. Which graph below could represent the total cost in a month in terms of minutes?



Simplify.

40) $(x^2 + 3x + 5)(x - 2)$

42) $(2x + 7)(x + 1)$

41) $(x + 3)(x - 5)$

43) $(x + 7)^2$

44) Which of the following is equivalent to $x^2 \cdot \sqrt{x}$?

a) x

b) $x^{\frac{5}{2}}$

c) $x^{\frac{3}{2}}$

d) $x^{\frac{1}{2}}$