Lesson 11. Homework

Gr04_2--Lesson 11 Homework

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Homework

Name:
_____

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2   Fill in the blanks so the fractions are equivalent.

a $\dfrac{1}{4} = \dfrac{3}{} = \dfrac{}{16} = \dfrac{}{28} = \dfrac{}{}$

b $\dfrac{1}{3} = \dfrac{6}{} = \dfrac{}{21} = \dfrac{}{33} = \dfrac{}{}$

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3   Arrange the fractions in increasing order.

a $\dfrac{3}{7}, \dfrac{1}{14}, \dfrac{5}{28}$

_____

b $\dfrac{2}{3}, \dfrac{7}{12}, \dfrac{25}{36}$

_____

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4   Compare the fractions.

a $\dfrac{4}{15} \underline{} 1$

b $\dfrac{1}{12}$ ___ $\dfrac{13}{21}$

c $\dfrac{8}{23}$ ___ $\dfrac{7}{9}$

d $\dfrac{20}{30}$ ___ $\dfrac{3}{9}$

e $\dfrac{9}{14}$ ___ $\dfrac{11}{16}$

f $\dfrac{10}{17}$ ___ $\dfrac{23}{30}$

5   Mark $\dfrac{1}{8}$, $-\dfrac{1}{4}$, $-1\dfrac{1}{2}$, $\dfrac{2}{4}$, $1\dfrac{3}{8}$, $-\dfrac{3}{4}$, and $1\dfrac{2}{8}$ on the number line.

6   Fill in the blanks.

a $\dfrac{1}{4}$ of 40 is _____.

40 is $\dfrac{1}{4}$ of _____.

b $\dfrac{3}{5}$ of 15 is _____.

15 is $\dfrac{3}{5}$ of _____.

c $\dfrac{2}{3}$ of 24 is _____.

24 is $\dfrac{2}{3}$ of _____.

7   Multiply.

a $\begin{array}{r} 4\ 0\ 7 \\ \times \quad\quad 5 \\ \hline \end{array}$

b $\begin{array}{r} 1\ 4\ 0\ 5 \\ \times \quad\quad\quad 7 \\ \hline \end{array}$

c $\begin{array}{r} 1\ 8\ 3 \\ \times \quad\quad 6 \\ \hline \end{array}$

d $\begin{array}{r} 3\ 0\ 9\ 9 \\ \times \quad\quad\quad 9 \\ \hline \end{array}$

8   Sir Arthur has half as many Arabian horses as Shire horses, and he has a combined total of 42. How many Shire horses does Sir Arthur have?

_____

9   Solve the equation.

a $2x + 7 = 57$

b $2(x + 7) = 70$

c $3x - 7 = 53$

d $3(x - 7) = 60$

10   Simplify the expression.

a $7a + 7 - a + 7 =$

b $7a + 3 - (a + 1) =$

c $7(a+3) =$

d $(a+7) \cdot 3 =$

11 Use a factor tree to find the prime factorization of the number.
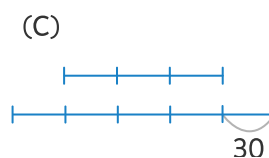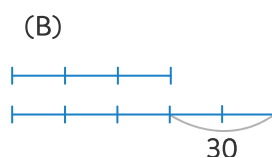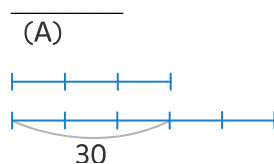Use exponents to write your answers.

a $200 = $ _____

b $81 = $ _____

c $60 = $ _____

d $45 = $ _____

12 Choose the best diagram and solve each problem.

a Piglet Nifnif's house is $\dfrac{3}{5}$ the height of piglet Nufnuf's house. How tall
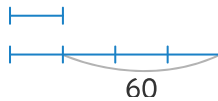is Nifnif's house if Nufnuf's house is 30 feet taller? _____

_____
(A)   (B)   (C)

30   30   30

b Jumpy mined a fourth as many gems as Hoppy. Hoppy mined 60 more gems than Jumpy. How many gems did Hoppy and Jumpy mine in all?
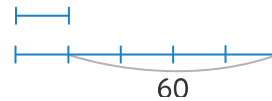
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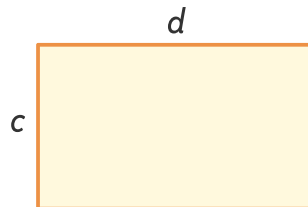(A)   (B)   (C)

60   60   60

13 Use the distributive property to calculate.

a $1950 \cdot 24 + 24 \cdot 50 =$

b $832 \cdot 5 - 824 \cdot 5 =$

c $840 \div 60 - 240 \div 60 =$

d $367 \cdot 86 + 367 \cdot 13 + 367 =$
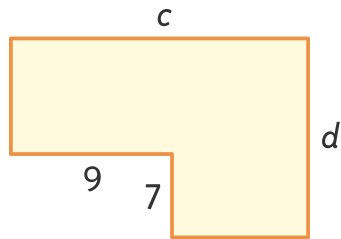
14 Calculate. Remember the order of operations!

a $480 \div 8 + 5 \cdot 6 - 16 =$

b $320 \div 2 \div (400 - 40 \cdot 6) + 79 =$

15 Find the area and the perimeter of the shape.

a

d

c

$A = $ _____

$P = $ _____

b

c

d

9

7

$A = $ _____

$P = $ _____