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Practice worksheet for Fractions & Linear Equations

Fractions

1. Convert to mixed fraction: $\dfrac{25}{10}, \dfrac{15}{4}$

   Convert to improper fraction : $2\dfrac{1}{5}$, $3\dfrac{2}{3}$

2. Fill in the boxes:

   $\dfrac{4}{5} = \dfrac{24}{\square}$ $\dfrac{12}{15} = \dfrac{\square}{5}$

3. Which of the following pairs of fractions are like?

   $\dfrac{4}{5}, \dfrac{4}{7}$ $\dfrac{12}{15}, \dfrac{4}{15}$ $\dfrac{10}{20}, \dfrac{20}{10}$

4. Add :   a) $\dfrac{3}{4} + \dfrac{4}{5}$ b) $\dfrac{5}{6} + \dfrac{7}{12}$

5. Subtract :   a) $\dfrac{7}{9} - \dfrac{12}{18}$ b) $\dfrac{3}{9}$ from $\dfrac{2}{5}$

6. Multiply :   a) $\dfrac{6}{7} \times \dfrac{35}{18}$ b) $\dfrac{15}{24} \times \dfrac{36}{40}$

7. Divide :   a) $\dfrac{7}{25} \div \dfrac{56}{45}$ b) $\dfrac{33}{60} \div \dfrac{55}{20}$

Linear Equations

A] Write each of the following statements as an equation.

1. A number decreased by 15 equals to 40.
2. Thrice a number is 12.
3. A number divided by 7 gives the result 14.
4. A number increased by 3 equals 15.
5. 8 subtracted from a number equals 30.

B] Write a statement for the equation given below.

1. $2x - 8 = 12$ 2. $y + 4 = 72$
3. $z + 5 = 44$ 4. $b \div 8 = 13$

C] Write each of the following statement as an equation and solve.

a. A number divided by 10 equals 3.
b. 31 added to a number gives 75
c. Five times a number is 400.
d. 18 subtracted from a number gives 22.

e. A number divided by 4 equals 55.
f. Product of a number and 7 is 63.
g. A number decreased by 6 equals 30.

Answers:

Fractions

1. : $2\frac{5}{10}$: $3\frac{3}{4}$; $\frac{11}{5}$, $\frac{11}{3}$

2. 30 , 4   3. Only 2nd pair

4   a. $\frac{31}{20}$ = $1\frac{11}{20}$ b. $\frac{17}{12}$ = $1\frac{5}{12}$

5 .a. $\frac{2}{18}$ = $\frac{1}{9}$ b. $\frac{3}{45}$ = $\frac{1}{15}$

6. a. $\frac{5}{3}$ = 1 $\frac{2}{3}$ b. $\frac{9}{16}$

7. a. $\frac{9}{40}$ b. $\frac{1}{5}$

Equations :

A] 1) d-15 =40   2) 3y =12   3) $\frac{m}{7}$ = 14
    4) g + 3 = 15   5) r-8= 30

C] a) $\frac{m}{10}$ = 3   b) y + 31 = 75   c) 5k = 400
      m= 30   y = 44   k = 80

   d) z-18 = 22   e) $\frac{w}{4}$ = 55   f) 7v = 63   g) n-6 = 30
      z = 40   w = 220   v= 9   n = 36