

① graph -5 on the number line

②  $-8 > 7$  use  $<$  or  $>$

③  $-7 > -2$  use  $<$  or  $>$

④  $|17|$

⑤  $|-56|$

⑥  $|0|$

⑦  $-(-14)$

⑧  $-|-20|$

⑨  $-79 + (-17)$

⑩  $-90 + 97$

⑪  $-10 + 8$

⑫  $-160 + 103$

⑬  $x + 4 = 13$

⑭  $z + 11 = -2$

⑮  $(-7)(-7)(-6)$

⑯  $\frac{-80}{5}$

⑰  $\frac{0}{-17}$

⑱  $\frac{-6}{0}$

⑲  $-4a = 8$

⑳  $-13d = 0$

Math030590

Videos (0305/0301)

Steps

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Math0305

Videos

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Math

Math0301

Alfred Alvarez - Math0301

Sort by Title **Ascending**

Apply

21.  $\sqrt{64}$

22.  $7 + 5(-4)$

23.  $-2 + 7(4 - 8)$

24.  $9 - 7^2$

25.  $\sqrt{100} - \sqrt{9}$

26.  $-10\sqrt{100} + |22 \div (-11)| - (22 - 10)$

27.  $\frac{-19 + 5^2 - (-15)}{-6 - 9 + 18}$

28.  $10x^2 + 6y$  Evaluate if  $x=8, y=9$

29.  $10x^2 - 3x - 5$  Evaluate if  $x=-2$

30.  $9x - 9(x+2)$  Evaluate if  $x=-9$

31.  $-|4m + 4n|$  Evaluate if  $m=-8, n=3$

32.  $b^2 - 4ac$  Evaluate if  $b=-5, a=3, c=6$

33.  $\frac{x^2}{2x+y}$  Evaluate if  $x=5, y=-1, z=3$

34.  $\frac{9}{m+6}$  where is expression undefined?



35.  $\frac{x+5}{(x-2)(x-7)}$  where is expression undefined?

36.  $m - 5m$  simplify

37.  $(8x+1) + (-6x+11)$  simplify

38.  $(8x^8 - 8x^5 + 8x^2 + 4) + (9x^7 + 2x^5 - 3x)$  simplify

39.  Find perimeter

40.  $(10y+13) - (-6y+9)$  simplify

41.  $(9p^2 + 12p + 8) - (3p^2 + 4p - 6)$  simplify

42.  $(-3x^3)(-8x^5)$  simplify

43.  $(-7x^6)(5x^3)(9x^2)$  simplify

44.  $(-2x^4)^5$  simplify

45.  $3(10x+3)$  simplify

46.  $12x(-7x-6)$  simplify

47.  $11x^5(-9x^7-3x^5)$  simplify

48. 30, find the prime factorization

49. 100 and 60, find GCF

50.  $\frac{20x^{10}}{2x^5}$  simplify



51.  $6z + 9 = 5z + 2$

52.  $-2a + 5 + 3a = 15 - 21$

53.  $4(y + 2) = 5(y - 2)$

54.  $-20 = n - 1$

55.  $7y - 2(y - 2) = 9y - (5y + 8)$

56.  $10y = 10$

57.  $-19m = 57$

58.  $9n - 6 = 30$

59.  $61 = 9x - 2$

60.  $5x - 8x + 10x = 28 - 10x + 3x$

61.  $\frac{1}{2} = \frac{x}{8}$

62.  $5\frac{8}{9}$  write as improper fraction

63.  $\frac{15}{27}$  simplify

64. 21 minutes is what fraction of an hour?

65.  $\frac{47}{8}$  write as a mixed number.

66.  $\frac{18x^3y^2z^2}{33xy^2z^4}$  simplify



$$(67) \frac{15}{18} \cdot \frac{3}{5}$$

$$(68) - \frac{12x^4y}{10z} \cdot \frac{20z}{20x^2}$$

$$(69) \left(\frac{5}{9}\right)^2$$

$$(70) \left(\frac{m^3n}{3p^2}\right)^2$$

$$(71) \sqrt{\frac{49}{121}}$$

$$(72) -\frac{16}{21}y = -\frac{4}{15}$$

(73) 14 and 35, find LCM

(74)  $30h^2k$  and  $360h^2k^3$ , find LCM

$$(75) \frac{6}{21} - \frac{2}{21}$$

$$(76) \frac{11}{12x} - \frac{4}{12x}$$

$$(77) \frac{4}{8} + \frac{1}{12} + \frac{4}{15}$$

$$(78) \frac{5}{12m} - \frac{5}{8m}$$



$$(79) \quad 3\frac{4}{7} + 2\frac{4}{7}$$

$$(80) \quad k + \frac{1}{5} = \frac{1}{2}$$

$$(81) \quad \frac{17}{18} - \frac{7}{9} = \frac{7}{8}$$

$$(82) \quad \left(\frac{2}{3}\right)^2 + 5\frac{1}{3} \div 1\frac{1}{5}$$

$$(83) \quad 0.259 + 6.2$$

$$(84) \quad 41.64 + 1 + 73.29 + 18.494$$

$$(85) \quad 14.2 - 2.38$$

$$(86) \quad -5.041 + (-4.173)$$

$$(87) \quad 6.8 = x + 6.3$$

$$(88) \quad -1.2 + x = 16$$

$$(89) \quad (0.5)(0.7)$$

$$(90) \quad (-0.503)(-0.03) \quad ?$$

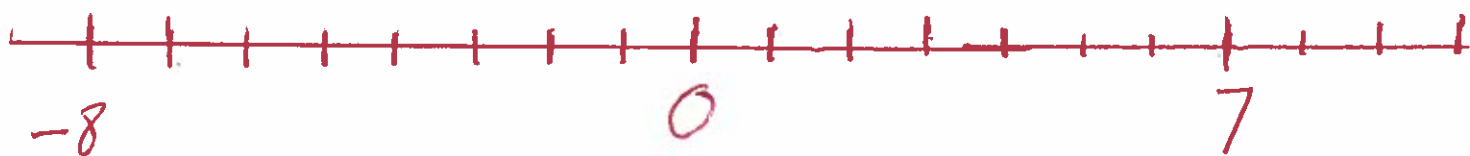


① graph -5

7

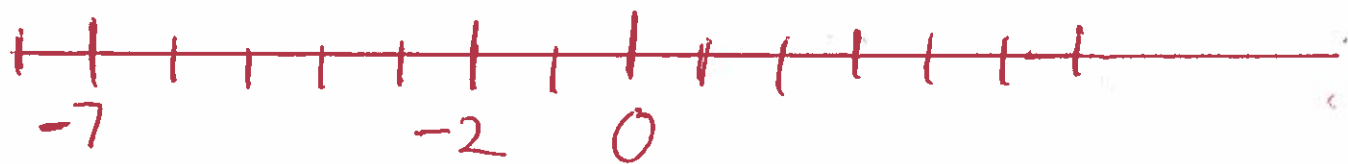


② -8 ? 7



$$-8 < 7$$

③ -7 ? -2



$$-7 < -2$$

④  $|17| =$  absolute value

$$17 =$$

⑤  $| -56 | =$  absolute value

$56 =$

8

⑥  $| 0 | =$  absolute value

$0 =$

⑦  $-(-14) =$  negative of a negative is a positive

$14 =$

⑧  $-|-20| =$

$-(20) =$  absolute value of negative twenty

$-20 =$

⑨  $-79 + (-17) =$

$-79 - 17 =$

$-96 =$

$$\begin{array}{r} 79 \\ + 17 \\ \hline 96 \end{array}$$



$$\textcircled{10.} \quad -90 + 97 =$$

$$\textcircled{7 =}$$

9

$$\textcircled{11.} \quad -10 + 8 =$$

$$\textcircled{-2 =}$$

$$\textcircled{12.} \quad -160 + 103 =$$

$$\textcircled{-57 =}$$

$$\begin{array}{r} 160 \\ -103 \\ \hline 57 \end{array}$$

$$\textcircled{13.} \quad x + 4 = 13$$

$$x + 4 - 4 = 13 - 4$$

$$\textcircled{x = 9}$$

$$\textcircled{14.} \quad z + 11 = -2$$

$$z + 11 - 11 = -2 - 11$$

$$\textcircled{z = -13}$$

$$\begin{aligned} 15. \quad & (-7)(-7)(-6) = \\ & 49(-6) = \\ & -294 = \end{aligned}$$

$$\begin{array}{r} 5 \\ 49 \\ \times 6 \\ \hline 294 \end{array}$$



$$16. \quad \frac{-80}{5} =$$

$$-16 =$$

$$\begin{array}{r} 16 \\ 5 \overline{)80} \\ \underline{-(5)} \\ 30 \\ \underline{-(30)} \\ 0 \end{array}$$

$$17. \quad \frac{0}{-17} =$$

$$0 =$$

$$18. \quad \frac{-6}{0} = \text{undefined}$$

$$\begin{aligned} 19. \quad & -4a = 8 \\ & \frac{-4a}{-4} = \frac{8}{-4} \end{aligned}$$

$$a = -2$$

$$\textcircled{20} \quad -13d = 0$$

$$\frac{-13d}{-13} = \frac{0}{-13}$$

$$d = 0$$



$$\textcircled{21} \quad \sqrt{64} =$$

$$8 =$$

$$\textcircled{22} \quad 7 + 5(-4) =$$

$$7 - 20 =$$

$$-13 =$$

$$\textcircled{23} \quad -2 + 7(4 - 8) =$$

$$-2 + 7(-4) =$$

$$-2 - 28 =$$

$$-30 =$$

$$\textcircled{24} \quad 9 - 7^2 =$$

$$9 - (7)(7) =$$

$$9 - (49) =$$

$$9 - 49 =$$

$$-40 =$$

$$\textcircled{25} \sqrt{100} - \sqrt{9} =$$

$$10 - 3 =$$

$$\textcircled{7} =$$

12

$$\textcircled{26} -10\sqrt{100} + \left| 22 \div (-11) \right| - (22 - 10) =$$

$$-10\sqrt{100} + \left| -2 \right| - (12) =$$

$$-10(10) + (2) - 12 =$$

$$-100 + 2 - 12 =$$

$$-98 - 12 =$$

$$\textcircled{-110} =$$

$$\textcircled{27} \frac{-19 + 5^2 - (-15)}{-6 - 9 + 18} =$$

$$\frac{-19 + (5)(5) - (-15)}{-6 - 9 + 18} =$$

$$\frac{-19 + 25 + 15}{-6 - 9 + 18} =$$

$$\frac{-19 + 25 + 15}{-6 - 9 + 18} =$$

$$\frac{6 + 15}{-15 + 18} =$$

$$\frac{21}{3} =$$

$\textcircled{7}$

(28)  $10x^2 + 6y$  Eval if  $x=8, y=9$

$$10(8)^2 + 6(9) =$$

$$10(8)(8) + 6(9) =$$

$$10(64) + 6(9) =$$

$$640 + 54 =$$

$$694 =$$



(29)  $10x^2 - 3x - 5$  Eval if  $x=-2$

$$10(-2)^2 - 3(-2) - 5 =$$

$$10(-2)(-2) - 3(-2) - 5 =$$

$$10(4) - 3(-2) - 5 =$$

$$40 + 6 - 5 =$$

$$46 - 5 =$$

$$41 =$$

(30)  $9x - 9(x+2)$  Eval if  $x=-9$

$$9(-9) - 9(-9+2) =$$

$$9(-9) - 9(-9+2) =$$

$$9(-9) - 9(-7) =$$

$$-81 + 63 =$$

$$-18 =$$

31.  $-|4m + 4n|$  eval if  $m = -8, n = 3$

$$-|4(-8) + 4(3)| =$$

$$-|-32 + 12| =$$

$$-|-20| =$$

$$-(20) =$$

$$-20 =$$

14

32.  $b^2 - 4ac$  eval  $b = -5, a = 3, c = 6$

$$(-5)^2 - 4(3)(6) =$$

$$(-5)(-5) - 4(3)(6) =$$

$$25 - 12(6) =$$

$$25 - 72 =$$

$$-47 =$$

33)  $\frac{x^2}{2x+y}$  Eval if  $x=5, y=-1, z=3$

$$\frac{(5)^2}{2(5) + (-1)} =$$

$$\frac{(5)(5)}{2(5) + (-1)} =$$

$$\frac{25}{10 - 1} =$$

$$\frac{25}{9} =$$

34)  $\frac{9}{m+6}$  where is expression undefined?

Let  $m+6=0$

$$m+6-6=0-6$$

$$m = -6$$



35.  $\frac{x+5}{(x-2)(x-7)}$  where is expression undefined?

set  $(x-2)(x-7) = 0$

$x-2=0$  OR  $x-7=0$

$x-2+2=0+2$  OR  $x-7+7=0+7$

$x=2$  OR  $x=7$



36.  $m - 5m =$

$1m - 5m =$

$-4m =$

37.  $(8x+1) + (-6x+11) =$

$8x+1 - 6x+11 =$

$2x+12 =$

38.  $(8x^8 - 8x^5 + 8x^2 + 4) + (9x^7 + 2x^5 - 3x) =$

$8x^8 - 8x^5 + 8x^2 + 4 + 9x^7 + 2x^5 - 3x =$

$8x^8 + 9x^7 - 6x^5 + 8x^2 - 3x + 4 =$



39.  find perimeter

$$P = s_1 + s_2 + s_3 \quad \text{add all sides}$$

$$P = (x-3) + (x) + (x+5)$$

$$P = x-3 + x + x+5$$

$$P = 3x + 2$$

40.  $(10y+13) - (-6y+9) =$

$$10y+13 + 6y - 9 =$$

$$16y + 4 =$$

41.  $(9p^2+12p+8) - (3p^2+4p-6) =$

$$9p^2+12p+8 - 3p^2 - 4p + 6 =$$

$$6p^2 + 8p + 14 =$$

42.  $(-3x^3)(-8x^5) =$

$$24x^{3+5} =$$

$$24x^8 =$$

17

$$(43) (-7x^6)(5x^3)(9x^2) =$$

$$(-7)(5)(9) x^{6+3+2} =$$

$$-315x^{11} =$$

18

$$(44) (-2x^4)^5 =$$

$$(-2)^5 x^{4 \cdot 5} =$$

$$(-2)^{1(5)} x^{4(5)} =$$

$$(-2)^5 x^{20} =$$

$$(-2)(-2)(-2)(-2)(-2) x^{20} =$$

$$-32x^{20} =$$

$$(45) 3(10x+3) =$$

$$30x + 9 =$$

$$(46) 12x(-7x-6) =$$

$$-84x^2 - 72x =$$

$$(47) \quad 11x^5(-9x^7 - 3x^5) =$$

$$-99x^{5+7} - 33x^{5+5} =$$

19

$$-99x^{12} - 33x^{10} =$$

(48) 30, find the prime factorization  
Primes 2, 3, 5, 7, 11, 13, 17, 19, ...

$$\begin{array}{r} 2 \overline{) 30} \\ 3 \overline{) 15} \\ 5 \overline{) 5} \end{array}$$

$$30 = 2 \cdot 3 \cdot 5$$

1 done

(49) 100 and 60, find GCF  
Primes 2, 3, 5, 7, 11, 13, 17, 19, ...

$$GCF = 20$$

$$\begin{array}{r} 2 \overline{) 100} \\ 2 \overline{) 50} \\ 5 \overline{) 25} \\ 5 \overline{) 5} \\ 1 \end{array} \quad \begin{array}{r} 2 \overline{) 60} \\ 2 \overline{) 30} \\ 3 \overline{) 15} \\ 5 \overline{) 5} \end{array}$$

$$100 = 2 \cdot 2 \cdot 5 \cdot 5$$

$$60 = 2 \cdot 2 \cdot 3 \cdot 5$$

$$GCF = 2 \cdot 2 \cdot 5 = 20$$

$$\textcircled{50} \quad \frac{20x^{10}}{2x^5} =$$

$$\frac{2(10)x^{10-5}}{2} =$$

$$10x^5 =$$

$$\textcircled{51.} \quad 6z + 9 = 5z + 2$$

$$6z + \cancel{9} - \cancel{9} = 5z + 2 - 9$$

$$6z = 5z - 7$$

$$6z - 5z = 5z - 7 - \cancel{5z}$$

$$1z = -7$$

$$z = -7$$

$$\textcircled{52.} \quad -2a + 5 + 3a = 15 - 21$$

$$1a + 5 = -6$$

$$a + 5 = -6$$

$$a + \cancel{5} - \cancel{5} = -6 - 5$$

$$a = -11$$

$\textcircled{20}$

$$(53) \quad 4(y+2) = 5(y-2)$$

$$4y + 8 = 5y - 10$$

$$4y + \cancel{8} - 8 = 5y - 10 - 8$$

$$4y = 5y - 18$$

$$4y - 5y = \cancel{5y} - 18 - \cancel{5y}$$

$$-1y = -18$$

$$\frac{-1y}{-1} = \frac{-18}{-1}$$

$$y = 18$$

21

$$(54) \quad -20 = n - 1$$

$$-20 + 1 = n - \cancel{1} + \cancel{1}$$

$$-19 = n$$

$$(55) \quad 7y - 2(y-2) = 9y - (5y+8)$$

$$-7y - 2y + 4 = 9y - 5y - 8$$

$$-9y + 4 = 4y - 8$$

$$-9y + \cancel{4} - 4 = 4y - 8 - 4$$

$$-9y = 4y - 12$$

$$-9y - 4y = \cancel{4y} - 12 - \cancel{4y}$$

$$-13y = -12$$

$$\frac{-13y}{-13} = \frac{-12}{-13}$$

$$y = \frac{12}{13}$$

$$(56) \quad 10y = 10$$

$$\frac{10y}{10} = \frac{10}{10}$$

$$y = 1$$

22

$$(57) \quad -19m = 57$$

$$\frac{-19m}{-19} = \frac{57}{-19}$$

$$m = -3$$

$$(58) \quad 9n - 6 = 30$$

$$9n - \cancel{6} + 6 = 30 + 6$$

$$9n = 36$$

$$\frac{9n}{9} = \frac{36}{9}$$

$$n = 4$$

$$(59) \quad 61 = 9x - 2$$

$$61 + 2 = 9x - \cancel{2} + \cancel{2}$$

$$63 = 9x$$

$$\frac{63}{9} = \frac{9x}{9}$$

$$7 = x$$

$$(60.) \quad 5x - 8x + 10x = 28 - 10x + 3x$$

$$-3x + 10x = 28 - 7x$$

$$7x = 28 - 7x$$

$$7x + 7x = 28 - 7x + 7x$$

$$14x = 28$$

$$\frac{14x}{14} = \frac{28}{14}$$

$$x = 2$$

23

$$(61.) \quad \frac{1}{2} = \frac{x}{8}$$

$1(8) = 2(x)$  cross multiply

$$8 = 2x$$

$$\frac{8}{2} = \frac{2x}{2}$$

$$4 = x$$

(62.)  $5\frac{8}{9}$  write as improper fraction

$$\frac{9(5) + 8}{9} =$$

$$\frac{45 + 8}{9} =$$

$$\frac{53}{9} =$$

$$\textcircled{63} \quad \frac{15}{27} =$$

$$\frac{\cancel{3} \cdot 5}{\cancel{3} \cdot \cancel{3} \cdot 3} =$$

$$\frac{5}{9} =$$

$$\begin{array}{r} 3 \overline{)15} \\ \underline{5} \\ 1 \end{array}$$

$$15 = 3 \cdot 5$$

$$\begin{array}{r} 3 \overline{)27} \\ \underline{3} \\ 3 \overline{)9} \\ \underline{3} \\ 3 \overline{)3} \\ \underline{3} \\ 1 \end{array}$$

$$27 = 3 \cdot 3 \cdot 3$$

24

$\textcircled{64}$  21 minutes is what fraction of an hour?

$$\frac{21}{1 \text{ hr}} =$$

$$\frac{21 \text{ min}}{60 \text{ min}} =$$

$$\frac{\cancel{3} \cdot 7}{2 \cdot 2 \cdot \cancel{3} \cdot 5} =$$

$$\frac{7}{20} =$$

$$\begin{array}{r} 3 \overline{)21} \\ \underline{7} \\ 1 \end{array}$$

$$21 = 3 \cdot 7$$

$$\begin{array}{r} 2 \overline{)60} \\ \underline{2} \\ 30 \\ 2 \overline{)30} \\ \underline{2} \\ 15 \\ 3 \overline{)15} \\ \underline{3} \\ 5 \\ 5 \overline{)5} \\ \underline{5} \\ 1 \end{array}$$

$$60 = 2 \cdot 2 \cdot 3 \cdot 5$$



65)  $\frac{47}{8}$  write as a mixed number

$$5 \frac{7}{8} =$$

$$\begin{array}{r} 5 \frac{7}{8} \\ 8 \overline{) 47} \\ \underline{-(40)} \\ 7 \text{ rem} \end{array}$$



66)  $\frac{18x^3yz^2}{33xy^2z^4} =$

$$\frac{18x^3y^1z^2}{33x^1y^2z^4} =$$

$$\frac{\cancel{2} \cdot \cancel{3} \cdot 3 x^{3-1}}{\cancel{3} \cdot 11 y^{2-1} z^{4-2}} =$$

$$\frac{6x^2}{11yz^2} =$$

$$\begin{array}{r} 2 \overline{) 18} \quad 3 \overline{) 33} \\ 3 \overline{) 9} \quad 11 \overline{) 11} \\ 3 \overline{) 3} \quad 1 \\ 1 \end{array}$$

$$18 = 2 \cdot 3 \cdot 3$$

$$33 = 3 \cdot 11$$

$$\frac{6x^2}{11yz^2} =$$

$$(67) \frac{15}{18} \cdot \frac{3}{5} =$$

$$\begin{array}{r} 3 \overline{)15} \\ \underline{5} \\ 1 \end{array}$$

$$\begin{array}{r} 2 \overline{)18} \\ \underline{6} \\ 3 \overline{)9} \\ \underline{3} \\ 3 \overline{)3} \\ \underline{1} \end{array}$$



$$\frac{\cancel{3} \cdot \cancel{3}}{2 \cdot \cancel{3} \cdot \cancel{3}} \cdot \frac{\cancel{3}}{\cancel{5}} =$$

$$15 = 3 \cdot 5$$

$$18 = 2 \cdot 3 \cdot 3$$

$$\frac{1}{2} z$$

$$(68) \frac{-12x^4y}{10z} \cdot \frac{20z}{20x^2} =$$

$$\frac{-12x^4y^1}{10z^1} \cdot \frac{20z^1}{20x^2} =$$

$$\frac{(-12)(20)x^4y^1z^1}{(10)(20)z^1x^2} =$$

$$\frac{-12x^{4-2}y^1}{10}$$

$$\frac{-2(6)x^2y^1}{2(5)} =$$

$$\frac{-6x^2y}{5} =$$

$$(69) \left(\frac{5}{9}\right)^2 =$$

$$\left(\frac{5}{9}\right)\left(\frac{5}{9}\right) =$$

$$\frac{25}{81} =$$

27.

$$(70) \left(\frac{m^3 n}{3p^2}\right)^2 =$$

$$\left(\frac{m^3 n^1}{3^1 p^2}\right)^2 =$$

$$m^{3(2)} n^{1(2)}$$

$$\frac{m^6 n^2}{3^{1(2)} p^{2(2)}} =$$

$$\frac{m^6 n^2}{3^2 p^4} =$$

$$\frac{m^6 n^2}{9 p^4} =$$

$$(71) \sqrt{\frac{49}{121}} =$$

$$\frac{\sqrt{49}}{\sqrt{121}} =$$

$$\frac{7}{11} =$$

28.

$$(72) \frac{-16}{21}y = \frac{-4}{15}$$

$$\frac{-21}{16} \left( \frac{-16}{21}y \right) = \frac{-21}{16} \cdot \frac{-4}{15}$$

$$y = \frac{-3 \cdot 7}{2 \cdot 2 \cdot 2 \cdot \cancel{7}} \cdot \frac{-2 \cdot 2}{\cancel{3} \cdot 5}$$

$$y = \frac{7}{20}$$

(73) 14 and 35 find LCM

$$\begin{array}{r} 2 \overline{)14} \\ 7 \overline{)7} \\ \hline 1 \end{array}$$

$$\begin{array}{r} 5 \overline{)35} \\ 7 \overline{)7} \\ \hline 1 \end{array}$$

$$\text{LCM} = 2 \cdot 5 \cdot 7$$

$$= 70$$

74.  $30h^5k^1$  and  $360h^2k^3$

$$h^5 = h \cdot h \cdot h \cdot h \cdot h$$

$$k^1 = k$$

$$h^2 = h \cdot h$$

$$k^3 = k \cdot k \cdot k$$

$$\begin{array}{r} 2 \overline{) 30} \\ 3 \overline{) 15} \\ 5 \overline{) 5} \\ 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 360} \\ 2 \overline{) 180} \\ 2 \overline{) 90} \\ 3 \overline{) 45} \\ 3 \overline{) 15} \\ 5 \overline{) 5} \\ 1 \end{array}$$

29

$$\text{LCM} = 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5 h^5 k^3$$

$$= 360 h^5 k^3$$

75.  $\frac{6}{21} - \frac{2}{21} =$

$$\frac{6-2}{21} =$$

$$\frac{4}{21} =$$

76.  $\frac{11}{12x} - \frac{4}{12x} =$

$$\frac{11-4}{12x} =$$

$$\frac{7}{12x}$$

$$(77) \quad \frac{4}{8} + \frac{1}{12} + \frac{4}{15} =$$

$$\frac{4}{8} \left( \frac{15}{15} \right) + \frac{1}{12} \left( \frac{10}{10} \right) + \frac{4}{15} \left( \frac{8}{8} \right) =$$

$$\frac{60}{120} + \frac{10}{120} + \frac{32}{120} =$$

$$\frac{60 + 10 + 32}{120} =$$

$$\frac{102}{120} =$$

$$\frac{6(17)}{6(20)} =$$

$$\frac{17}{20} =$$

$$(78) \quad \frac{5}{12m} - \frac{5}{8m}$$

$$\frac{5}{12m} \left( \frac{2}{2} \right) - \frac{5}{8m} \left( \frac{3}{3} \right) =$$

$$\frac{10}{24m} - \frac{15}{24m} =$$

$$\frac{10 - 15}{24m} =$$

$$\frac{-5}{24m} =$$

$$\begin{array}{r} 2 \overline{) 8} \\ 2 \overline{) 4} \\ 2 \overline{) 2} \\ 1 \end{array}$$

$$30$$

$$\begin{array}{r} 2 \overline{) 12} \\ 2 \overline{) 6} \\ 3 \overline{) 3} \\ 1 \end{array}$$

$$\begin{array}{r} 3 \overline{) 5} \\ 5 \overline{) 5} \\ 1 \end{array}$$

$$LCD = 2 \cdot 2 \cdot 2 \cdot 5 \cdot 1 = 120$$

$$\begin{array}{r} 2 \overline{) 12} \\ 2 \overline{) 6} \\ 3 \overline{) 3} \\ 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 8} \\ 2 \overline{) 4} \\ 2 \overline{) 2} \\ 1 \end{array}$$

$$LCD = 2 \cdot 2 \cdot 2 \cdot 3 \cdot 1 = 24m$$

$$(79) \quad 3\frac{4}{7} + 2\frac{4}{7} =$$

$$\frac{7(3)+4}{7} + \frac{7(2)+4}{7} =$$

$$\frac{21+4}{7} + \frac{14+4}{7} =$$

$$\frac{25}{7} + \frac{18}{7} =$$

$$\frac{25+18}{7} =$$

$$\frac{43}{7} =$$

OR

$$\begin{array}{r} 6\frac{1}{7} \\ 7 \overline{) 43} \\ \underline{-(42)} \\ 1 \text{ Rem} \end{array}$$

$$(80) \quad k + \frac{1}{5} = \frac{1}{2} \quad \text{LCD} = 10$$

$$10(k) + 10\left(\frac{1}{5}\right) = 10\left(\frac{1}{2}\right)$$

$$10k + 2(1) = 5(1)$$

$$10k + 2 = 5$$

$$10k + \cancel{2} - \cancel{2} = 5 - 2$$

$$10k = 3$$

$$\frac{10k}{10} = \frac{3}{10}$$

$$k = \frac{3}{10}$$

$$\textcircled{81} \quad \frac{17}{18} - \frac{7}{9} \cdot \frac{7}{8} =$$

$$\frac{17}{18} - \frac{49}{72} =$$

$$\frac{17}{18} \left(\frac{4}{4}\right) - \frac{49}{72} =$$

$$\frac{68}{72} - \frac{49}{72} =$$

$$\frac{68-49}{72} =$$

$$\frac{19}{72} =$$

$$\begin{array}{r} 2 \overline{) 18} \\ 3 \overline{) 9} \\ 3 \overline{) 3} \\ 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 72} \\ 2 \overline{) 36} \\ 2 \overline{) 18} \\ 3 \overline{) 9} \\ 3 \overline{) 3} \\ 1 \end{array}$$

$\textcircled{32}$

$$\text{LCD} = 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3$$

$$= 72$$

$$\textcircled{82} \quad \left(\frac{2}{3}\right)^2 + 5\frac{1}{3} \div 1\frac{1}{5} =$$

$$\left(\frac{2}{3}\right)^2 + \frac{16}{3} \div \frac{6}{5} =$$

$$\left(\frac{2}{3}\right)^2 + \frac{16}{3} \cdot \frac{5}{6} =$$

$$\left(\frac{2}{3}\right)\left(\frac{2}{3}\right) + \frac{\cancel{2} \cdot 2 \cdot 2 \cdot 2}{3} \cdot \frac{5}{\cancel{2} \cdot 3} =$$

$$\frac{4}{9} + \frac{40}{9} =$$

$$\frac{4+40}{9} =$$

$$\frac{44}{9} =$$

$$\begin{array}{r} 2 \overline{) 16} \\ 2 \overline{) 8} \\ 2 \overline{) 4} \\ 2 \overline{) 2} \\ 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 6} \\ 3 \overline{) 3} \\ 1 \end{array}$$



$$\textcircled{83} \quad 0.259 + 6.2 =$$

$$\begin{array}{r} 0.259 \\ + 6.200 \\ \hline 6.459 \end{array}$$

$\textcircled{33}$

$$\textcircled{84} \quad 41.64 + 1 + 73.25 + 18.494 =$$

$$\begin{array}{r} 41.640 \\ 1.000 \\ 73.290 \\ + 18.494 \\ \hline 134.424 \end{array}$$

$$\textcircled{85} \quad 14.2 - 2.38$$

$$\begin{array}{r} 14.20 \\ - 2.38 \\ \hline 11.82 \end{array}$$

$$\textcircled{86} \quad -5.041 + (-4.173) =$$

$$-5.041 - 4.173 =$$

$$-9.214 =$$

$$\textcircled{87.} \quad 6.8 = x + 6.3$$

$$6.8 - 6.3 = x + 6.3 - 6.3$$

$$\textcircled{0.5 = x}$$

$$\textcircled{88.} \quad -1.2 + x = 16$$

$$-1.2 + x + 1.2 = 16 + 1.2$$

$$\textcircled{x = 17.2}$$

$$\textcircled{89.}$$

$$(0.5)(0.7) =$$

$$\textcircled{0.35 =}$$

$$\begin{array}{r} 0.7 \\ \times 0.5 \\ \hline 0.35 \end{array}$$

$$\textcircled{90.}$$

$$(-0.503)(-0.03) =$$

$$\textcircled{\textcircled{0.01509 =}}$$

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