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MATH 0370 Foundations of College Mathematics
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Date: 10.03.18

Unit 3 Practice Assesment:

1. a. $\frac{336 \text{ words}}{15 \text{ min}} = \frac{112 \text{ words}}{5 \text{ min}}$

1. b. $\frac{8 \text{ advisers}}{50 \text{ students}} = \frac{4 \text{ advisers}}{25 \text{ students}}$

2 a. $\frac{\$7}{3 \text{ cans}} = \frac{\$28}{12 \text{ cans}}$

3. $\frac{6}{x} = \frac{4}{8}$

$\Rightarrow 4x = 6 \cdot 8$

$\Rightarrow x = \frac{6 \cdot 8^{2}}{4}$

$\therefore x = 12$

4. $\frac{14}{18} = \frac{49}{x}$

$\Rightarrow 14x = 49.18$

$\Rightarrow x = \frac{49.18}{14}$

$\Rightarrow x = \frac{7.7.2.9}{2.7}$

$\therefore x = 63.$

5. $\frac{1/2}{x} = \frac{2}{4/5}$

$\Rightarrow 2x = \frac{1}{2} \cdot \frac{4}{5}^{2}$

$\Rightarrow x = \frac{2^{1}}{5.2}$

$\therefore x = 1/5$

6. $\frac{x}{3.6} = \frac{4.5}{6}$

$\Rightarrow 6x = 4.5 \times 3.6$

$\Rightarrow x = \frac{4.5 \times 3.6}{6}$

$\therefore x = 2.7$

7. $\frac{\frac{1}{10}}{3/20} = \frac{\frac{3}{100}}{x}$

$\Rightarrow x \cdot \frac{1}{10} = \frac{3}{20} \cdot \frac{3}{100}$

$\Rightarrow x = \frac{9.10}{20.100}$

$\Rightarrow x = \frac{9}{200}$

8. $\frac{9.8}{4} = \frac{3.6}{x}$

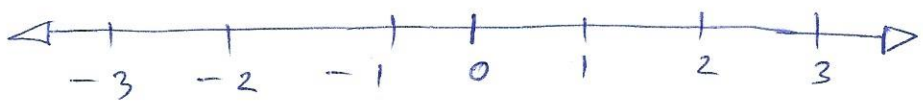
$\Rightarrow 9.8x = 3.6 \times 4$

$\Rightarrow x = \frac{3.6 \times 4}{9.8}$

$\therefore x = 1.47$

Integers : $\{\ldots, -2, -1, 0, 1, 2, 3, \ldots\}$

$-3 < -2$ $\qquad$ $2 < 3$



$3(4) = 12$

$-3(4) = -12$

$3(-4) = -12$

$-3(-4) = 12$

$+(+) = +$

$+(-) = -$

$-(+) = -$

$-(-) = +$

Book 12. $(-12)(-4) = 48$

20. $8(-3) = -24$

27. product of -5 & 3

$= -15$

30. -3 times 6

$= -18$

$2^4 = 16$

$(-2)^4 = 16$

$-2^4 = -16$

$(-1)^n = +$ if n is even

$(-1)^n = -$ only if n is odd.

$(-3)^3 = (-1)^3 3^3$

$= -27$

#Book. 38. $(-1)(-1)(-1)(-1)(-1)(-1)(-1)$

$= (-1)^7$

$= -1$

32. $(-3)(-5)(-2)(-4)$

$= 120$

48. $-8^{\checkmark}$

$= -64$

44. $(-8)^2$

$= (-8)(-8)$

$= 64$

52. $(-4)^4 = 256$

64. $-48 \div (-6)$

$= 8$

66. $\frac{-41}{0}$ = unde

68. $\frac{0}{-6} = 0$

20. $-4-15 = -19$

21. $50-62 = -12$

22. $38-46 = 8$

36. $-98+43 = -55$

32. $6-33 = -27$

29. $-15-19 = -34$

46. $-40+605-815$

$= 565-815$

$= -250$

18. $23-(-12)$

$= 23+12$

$= 35$

23. $-17-(-25)$

$= -17+25$

$= 8$

27. $120-(-41)$

$= 120+41$

$= 161$

39. $-48-(-41)$

$= -48+41$

$= -7$

47. $2+5-(-3)+(-10)$

$= 2+5+3-10$

$= 10-10$

$= 0$