

ANSWERS FOR 1.5

For use with pages 37-39

1.5 Guided Practice

2. Write out verbal model, label everything, write algebraic model, solve equation, answer the question.

4.
$$\boxed{\text{Water pressure}} = \boxed{\text{Pressure per foot of depth}} \cdot \boxed{\text{Depth}}$$

6. $2184 = 62.4d$

1.5 Practice and Applications

8. distance = 547 (km); rate = $32 \left(\frac{\text{km}}{\text{h}} \right)$; time = t (h)

10. $\frac{547}{32} \approx 17.1$ h

12. metronome marking
 $= 80 \left(\frac{\text{beats}}{\text{min}} \right)$;

length of musical piece
 $= t$ (min);

number of measures in piece
 $= 180$ (measures);

number of beats per measure
 $= 3 \left(\frac{\text{beats}}{\text{measure}} \right)$

14. 6 min 45 sec

16. total calories = T ;
calories per gram of fat = 9
number of grams of fat = f ;
calories per gram of protein = 4
number of grams of protein = p ;
calories per gram of carbohydrate = 4
number of grams of carbohydrate = c ;

18. 27 weeks

20. \$5; 5 lessons

22. 39 in., 33 in.

24. 45 blocks 26. 75%

28. D 30. 8 weeks

1.5 Mixed Review

32. true 34. false

36. $-2, -\frac{2}{3}, \frac{1}{100}, \frac{5}{8}, 1$

38. $-\sqrt{3}, 1, \sqrt{2}, \frac{8}{5}, \sqrt{10}$

40. -8 42. $\frac{13}{16}$

ANSWERS FOR 1.5 (CONT.)

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Quiz 2

2. -8 4. 160

6. $y = -\frac{6}{3} = -2$

8. 49 boxes

Math and History

2. 267; 200; 133; 100