Homework Answer Key **Course 3 Lesson # 11**

1. 4 boxes

2. 10,800 pounds
(1 ton = 2,000 pounds)

3. 101 cm

4. separating
$10 − a = $3.25
$6.75

5. $\frac{2 \cdot 2 \cdot 3 \cdot 5}{2 \cdot 2 \cdot 2 \cdot 3 \cdot 3} = \frac{5}{6}$

6. $\frac{2}{3} \times \frac{6}{6} = \frac{12}{18}$

7. Identity Property of Multiplication

8. 44 cm

9. $96 cm^2$

10. Perimeter = 100 ft.
Area = $625 ft^2$

11.
32 miles → 2 hours
48 miles → 3 hours
64 miles → 4 hours

12. $12.50 per hour

13. 105 people

14. 27 cm

15.
a. $|-4| > -3$
b. $\frac{4}{5} > \frac{7}{10}$

16. 7
Commutative Property of Addition

17. 13
Commutative Property of Multiplication

18. 7
Associative Property of Addition

19. $\frac{3}{4} = \frac{9}{12}$

20. 22

21. 7

22. $8 \cdot (7 \cdot 5)$ Given
$8 \cdot (5 \cdot 7)$ Commutative prop. of mult.
$(8 \cdot 5) \cdot 7$ Associative prop. of mult.
$40 \cdot 7$ multiply $8 \cdot 5$
280 multiply $40 \cdot 7$

23. D. rational numbers

24. C. integers
D. rational numbers

25. A. whole numbers
C. integers
D. rational numbers

26. 53, 59, 61, 67

27.
a. 81 = 9 ^ 9 = 3 3 3 3
$81 = 3 \cdot 3 \cdot 3 \cdot 3 = 3^4$

b. $80 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 5 = 2^4 \cdot 5$

2 | 4
2 | 8
2 | 16
5 | 80

28. 315

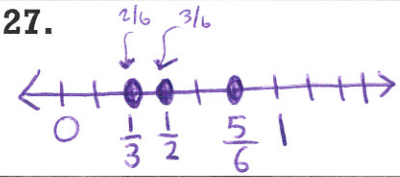
29. $30.14

30. 36

Homework Answer Key **Course 3 Lesson # 12**

1. 5 stacks	**2.** 68"	**3.** compare 8min. 25sec − 8min. 6sec = d 19sec
4. $\frac{2 \cdot 5 \cdot 5}{3 \cdot 5 \cdot 5} = \frac{2}{3}$	**5.** Four and two hundredths	**6.** 0.625
7. $\frac{17}{100}$	**8.** $9	**9.** $\frac{1}{7} = \frac{5}{35}$
10. $\frac{5}{5} = \frac{7}{7}$	**11.** 28m	**12.** $34m^2$
13. 8 acres	**14.** $21 per hour	**15.** 36m
16. 6 Commutative Property of multiplication	**17.** 1 Associative Property of Addition	**18.** $6\frac{1}{2}$ Commutative Property of Addition
19. a. $\|-2\| = 2$ b. $\frac{3}{4} > \frac{3}{8}$	**20.** $\frac{1}{2} = \frac{3}{6}$	**21.** 5 and 2
22. 2 and 3	**23.** $-1.2, -\frac{1}{2}, -0.12$	**24.** rational numbers and integers
25. 2, 3, 5, 7, 11, 13, 17, 19	**26.** $60 = 2 \cdot 2 \cdot 3 \cdot 5$ (or $60 = 2^2 \cdot 3 \cdot 5$)	**27.** 12
28. $136.80	**29.** 45 minutes	**30.** 25.931

Homework Answer Key **Course 3 Lesson # 13**

1. 52,000 people	**2.** 10 dimes	**3.** 2 hrs. → 1050 miles 3 hrs. → 1575 miles 4 hrs. → 2100 miles
4. separating $\frac{8}{8} - (\frac{3}{8} + \frac{1}{4}) = p$ $\frac{3}{8}$	**5.** comparing $7400 - 6900 = d$ $d = 500$ fans	**6.** $\frac{7}{8}$
7. $\frac{3}{8}$	**8.** $\frac{5}{6}$	**9.** $\frac{1}{2}$
10. $3\frac{1}{2}$	**11.** 1	**12.** $1\frac{7}{10}$
13. $5\frac{9}{10}$	**14.** $3\frac{1}{2} + (4\frac{9}{10} + 2\frac{1}{2})$ Given $3\frac{1}{2} + (2\frac{1}{2} + 4\frac{9}{10})$ Commutative Prop. $(3\frac{1}{2} + 2\frac{1}{2}) + 4\frac{9}{10}$ Associative Prop. $6 + 4\frac{9}{10}$ Add $3\frac{1}{2} + 2\frac{1}{2}$ $10\frac{9}{10}$ Add $6 + 4\frac{9}{10}$	**15.** a. 0.12 b. 3.4
16. a. $\frac{3}{20}$ b. $\frac{3}{200}$	**17.** A. addition C. multiplication	**18.** $\frac{3 \cdot 5 \cdot 5}{5 \cdot 5 \cdot 5} = \frac{3}{5}$
19. $\frac{60}{100}$	**20.** 6 in.	**21.** 224 ft^2
22. 71, 73, 79, 83, 89	**23.** $120 = 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5$ or $120 = 2^3 \cdot 3 \cdot 5$	**24.** 4
25. 24 inches	**26.** 70 papers per week	**27.** 
28. $4.02	**29.** 89	**30.** $3.10

Homework Answer Key **Course 3 Lesson # 14**

1. 160 farmers	**2.** 2 hrs. → 70 pages 3 hrs. → 105 pages 4 hrs. → 140 pages	**3.** 120 packages
4. Comparing $50 - 13 = d$ 37 stars	**5.** $m = 19$	**6.** $m = 11$
7. $w = 12$	**8.** $x = 3$	**9.** $x = 12$
10. $x = 18$	**11.** $\frac{17}{24}$	**12.** $1\frac{1}{16}$
13. $\frac{3}{8} + (1\frac{1}{2} + 2\frac{5}{8})$ Given $\frac{3}{8} + (2\frac{5}{8} + 1\frac{1}{2})$ Commutative prop. $(\frac{3}{8} + 2\frac{5}{8}) + 1\frac{1}{2}$ Associative prop. $3 + 1\frac{1}{2} = (4\frac{1}{2})$ Addition	**14.** $-1, -0.5, 0, \frac{3}{8}, \frac{1}{2}, 0.8, 1$	**15.** 18
16. Perimeter = 48	**17.** $y = 13$	**18.** $d = 240$
19. $\frac{5}{12}, \frac{2}{3}, \frac{3}{4}$	**20.** $990 = 2 \cdot 3 \cdot 3 \cdot 5 \cdot 11$ or $990 = 2 \cdot 3^2 \cdot 5 \cdot 11$	**21.** 28
22. 32	**23.** 10 in.	**24.** a. $\lvert -5 \rvert < \lvert -6 \rvert$ b. $-5 > -6$
25. 30 students	**26.** (estimate using 8% of \$40) \$3.20	**27.** a. 1.25 b. 0.0825
28. 31 in.	**29.** 36 m.	**30.** 5 yards long 4 yards wide 20 square yards

Homework Answer Key **Course 3 Lesson #** 15

1. 10,000 fans	**2.** 16 cups	**3.** 495 beats
4. $64 in^3$	**5.** 1	**6.** 8
7. $2x^3mr^2$	**8.** $x = 48$	**9.** $x = 0$
10. $m = 2$	**11.** $\frac{3}{10}$	**12.** $2\frac{7}{12}$
13. $(\frac{1}{3}+\frac{1}{2}+\frac{2}{3}) = (\frac{1}{3}+\frac{2}{3}+\frac{1}{2})$ Commutative Property of Addition	**14.** $-2, -1.5, 0, 0.3, \frac{1}{3}, 3$	**15.** 36
16. $5\frac{1}{2}$	**17.** $y = 4$	**18.** $13
19. $\frac{1}{4}, \frac{3}{8}, \frac{2}{5}$	**20.** $630 = 2 \cdot 3^2 \cdot 5 \cdot 7$	**21.** $A = 225 cm^2$
22. 24	**23.** 30 in.	**24.** $0.625 > \frac{3}{5}$
25. 5 bears	**26.** $\frac{7}{100}$; seven hundredths	**27.** It is false because zero is a whole number but it is not positive
28. 30 cm	**29.** 15 in.	**30.** $225 ft^2$