

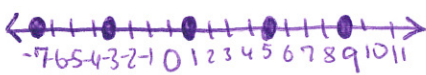


★ 1. 3 hours	★ 2. 8 oz.	★ 3. 2000 grams
★ 4. 225 students	5. 24 lbs.	6. 41 pages
★ 7. $\frac{2}{5}$	8. 3 trucks	9. 193 miles
10. 50 calories	11. 168 hours	12. 47 min
★ 13. 9 oz.	14. $-2, 0, \frac{1}{2}, \frac{5}{7}, 1$	15. $-5 < 4$
16. $ -2 < -3 $	17. $5 = -5 $	18. $5 + 3 = 3 + 5$
19. $\{2, 4, 6, \dots\}$	20. 0 (zero)	★ 21. 
22. $3 + 12 = 15$ $15 - 3 = 12$ $15 - 12 = 3$	23. $40 \div 5 = 8$ $5 \cdot 8 = 40$ $8 \cdot 5 = 40$	24. -100
★ 25. example: $-1, -2$ are both integers but not whole #s	★ 26. example: 8 is an integer and a whole #	★ 27. False. 4 is a counting # and 5 is an integer but 4 is not greater than 5.
★ 28. True. Every positive # is greater than 0. Every negative # is less than 0.	★ 29. False. $\frac{3}{2}$ is a fraction and it is greater than 1.	★ 30. 7 and -7

Homework Answer Key

Course 3 Lesson # 7

1. 11 cars	2. 28 trees	3. 119 ounces
4. 20 km/hr	5. 2,000 miles	6. 8 pints
7. 15 points per player	8. equal groups $3 \cdot 8 = t$ 24 pencils	9. Combining $15 + m = 33$ 18 points
10. separating $20 - 2 = 18$ 9 ounces	11. elapsed time	12. Ben had 9 5lb. bags of rice. How many total pounds of rice did he have?
13. Jessica went out to lunch with \$14. She left with \$3 in her wallet. How much did she pay for lunch?	14. $-1, 0, \frac{2}{5}, \frac{2}{3}, 1$	15. $-11 < -10$
16. a, b → addends c → sum d, e → factor f → product	17. $3 \cdot 8 = 8 \cdot 3$	18. sample: $(1+2)+3 = 1+(2+3)$
19. 	20. -20	21. $7-2=5$ $5+2=7$ $2+5=7$
22. $12 \div 3 = 4$ $3 \cdot 4 = 12$ $4 \cdot 3 = 12$	23. False; Zero is a whole # but not a counting #	24. 90
25. -6	26. a. $x=1$; Identity Property of Multiplication b. $y=0$; Identity Property of Addition	27. -8081
28. \$37.92	29. \$5.05	30. $4 \cdot (12 \cdot 75)$ Given $4 \cdot (75 \cdot 12)$ Commutative Property $(4 \cdot 75) \cdot 12$ Associative Property $300 \cdot 12$ multiply 4·75 3600 multiply 300·12

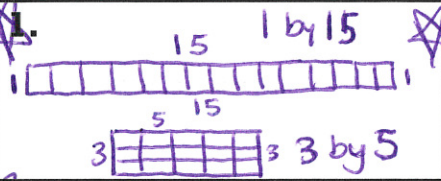
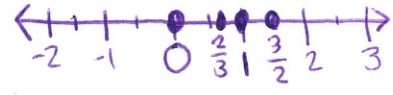
★ 1. 70 yards of fencing 300 yd ²	★ 2. 80 yds. by 60 yds. perimeter = 280 yards area = 4800 yd ²	★ 3. Perimeter is 4 times greater. Area is 16 times greater.
★ 4. 2 by 15 3 by 10 5 by 6	5. 60 chapters	★ 6. 40 oz.
★ 7. \$30	★ 8. a. mean = 9.7 minutes median = 9.5 minutes mode = 12 minutes range = 5 minutes b. range	9. 288 seats
10. 9	★ 11. 5,280 ft	★ 12. 56 mph
13. Dan went for a 5 mile run on Monday, Tuesday, Wednesday, and Thursday. How many total miles did he run in the 4 days?	14. Maya had 12 inches of ribbon. After using a small piece, she had 7 inches left. How much did she use?	15. $-2, -1, \frac{2}{6}, \frac{1}{2}, \frac{5}{7}, 1$
16. $-100 < 10$	17. $-3 > -4$	18. $ -3 < -4 $
★ 19. $5 + 7 = 7 + 5$	20. 	21. 15
22. $4 + 3 = 7$ $7 - 4 = 3$ $7 - 3 = 4$	23. -3	24. 5 and -5
★ 25. False; $-\frac{1}{2}$ is a negative # but not an integer	26. True; Integers include natural numbers	27. True, adding two whole #s will always result in a whole #.
28. $x = 15, -15$	29. 2,516	★ 30. $\frac{1}{4}$

Homework Answer Key

1. 2,460 people	2. 200 cm	3. 160 km (2 hrs.) 240 km (3 hrs.) 320 km (4 hrs.)
4. a. combining $150 + m = 320$ $m = 170$ miles b. 160 miles of track	5. a. 190 vehicles b. 173 vehicles c. median; the one low count (86) lowers the mean below most of the values.	6. 1,760 yd
7. 2, 3, 5, 7, 11, 13, 17, 19	8. 32 cm	9. \$1,541.39
10. 176	11. \$41.15	12. Perimeter = 152 in. Area = 1,408 in ²
13. Perimeter = 46m	14. Perimeter = 30 in. Area = 39 in ²	15. a. 54 feet b. 180 tiles
16. a = 5 Commutative Property of Addition	17. b = 18 Commutative Property of Multiplication	18. c = 1 Identity Property of Multiplication
19. d = 0 Zero Property of Multiplication	20. a. 9 b. $ -12 > 11 $	21. 65
22. 15	23. A whole numbers, B counting numbers, and C integers	24. A whole numbers and C. integers
25. C. integers	26. (all) A. 2, B. 3, C. 4, D. 5	27. 31, 37, 41, 43, 47
28. 490 $\begin{array}{c} 49 \quad 10 \\ \wedge \quad \wedge \\ 7 \quad 7 \quad 2 \quad 5 \end{array}$ $490 = 2 \cdot 5 \cdot 7 \cdot 7$	29. 48 $\begin{array}{c} 48 \\ \wedge \quad \wedge \\ 24 \quad 2 \\ \wedge \quad \wedge \\ 12 \quad 2 \\ \wedge \quad \wedge \\ 6 \quad 2 \\ \wedge \quad \wedge \\ 2 \quad 3 \end{array}$ $48 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3$ or $48 = 2^4 \cdot 3$	30. $40 \cdot (23 \cdot 50)$ Given $40 \cdot (50 \cdot 23)$ Commutative Prop. of Mult. $(40 \cdot 50) \cdot 23$ Associative Prop. of Mult. 2000 \cdot 23 multiply 40 \cdot 50 46,000 multiply 2000 \cdot 23

Homework Answer Key

Course 3 Lesson # 10

1. 	2. $90 = 2 \cdot 3 \cdot 3 \cdot 5$ or $90 = 2 \cdot 3^2 \cdot 5$	3. D. 165
4. $3 \overline{)165}$ $5 \overline{)165}$ $165 = 3 \cdot 5 \cdot 11$	5. $\frac{2 \cdot 11}{3 \cdot 5 \cdot 11} = \left(\frac{2}{15}\right)$	6. $\frac{5 \cdot 7}{2 \cdot 3 \cdot 5 \cdot 7} = \left(\frac{1}{6}\right)$
7. $\frac{2}{3} = \frac{30}{45}$	8. $\frac{2}{5} = \frac{40}{100}$	9. 
10. Perimeter = 46 ft. Area = 130 ft ²	11. mean = 84°F median = 84°F mode = 82°F range = 11°F	12. median (84°F)
13. 150 min.	14. 63 broken crayons	15. 4 coins
16. 109 invitations	17. Jose bought 5 lb of ground beef. How much did he use to make chili if he has 3½ lbs. left?	18. Discount tickets cost \$2. How many tickets can Anna buy if she has \$18?
19. $-\frac{4}{3}, -1, 0, \frac{3}{4}, 1$	20. $-7 < -6$	21. $ -7 > -6 $
22. $-\frac{3}{4} < -\frac{1}{4}$	23. $\frac{3}{4}$	24. 7 and -7
25. always true; integers include whole numbers	26. never true; a mixed # contains a fraction less than 1, so it can never be a whole number	27. sometimes true; the rational # $\frac{4}{2}$ is an integer but the rational # $\frac{1}{2}$ is not. (equals $\frac{1}{2}$)
28. \$3.75	29. \$539.91	30. 79