

Activity 56

- Y N N
- N Y N
- Y N N
- 14.5 : 22.5
- 3.0 : 22.5
- On Tuesday the ratio is 2:3. On Thursday the ratio is 4:6 which may be reduced to 2:3. On Friday the ratio is 1:3
- On Monday the ratio is 5:7 and on Wednesday the ratio is $2\frac{1}{2}$ to $3\frac{1}{2}$. These are equivalent ratios.

(114)

Activity 57

- 3:5 4:5 4:9
- 2:1 2:3 11:19
- 5:12 4:9 55:37
- It would be expressed as a ratio of %.
- 3:2
- 11:17
- 32:31
- Because 60:45 and 40:30 are both 4:3 in simplest form.
- 15 feet

(115)

Activity 58

- | | | | |
|-------|----|-------|-----|
| 1. 5 | 10 | 27 | 18 |
| 2. 7 | 20 | 1,000 | 48 |
| 3. 10 | 18 | 40 | 100 |
| 4. 6 | 2 | 30 | 12 |
| 5. 20 | 60 | 325 | 780 |
| 6. 8 | 24 | 16 | 176 |
7. 160 children

(116)

Activity 59

- \$105
- \$6.25
- 280 pounds
- \$6.00
- 15 rolls
- 36 miles
- 104 crayons
- 5 boxes

(117)

Ratios and Rates (page 61)

- Rate: 4 pieces per student
- Rate: 20 points per player
- Ratio: 9 to 8 doctors
- Ratio: 35 seconds for each minute
- Rate: 8 seeds per pot
- Ratio: 10 beads for each bead
- Rate: 50 stars per flag
- Ratio: 2 minutes for each 3 hours
- Ratio: 5 pencils for each student
- Ratio: 1:20 or $1/20$
- Ratio: 1:3 or $1/3$
- Rate: 1:6 or $1/6$

(119)

Rates (page 75)

- 1,200 m/3 days or 400 m/day
- \$260/20 days or \$13/day
- 300 flowers/20 tables or 15 flowers/table
- 480 beads/12 necklaces or 40 beads/necklace
- \$810/9 hours or \$90/hr
- 2,500 fish/50 tanks or 50 fish/tank
- 14.5 miles/hr.
- 86 km/hour
- 3 yards/dress
- \$25/class
- 4 mi./day
- 4 eggs/omelet

(120)

Proportions (page 76)

- a = 4
- d = 12
- c = 1
- x = 18
- b = 4
- d = 20
- b = 8
- d = 3
- a = 4
- d = 8
- x = 45
- x = 35
- x = 63
- x = 3
- n = 9

(121)

Ratios (page 74)

- There are 4 pieces of candy for each student.
- About 10" of rain fell per month.
- Someone can type 70 words per minute.
- The car uses 1 gal. of gas for every 22 miles traveled.
- There are 8 seeds for every pot.
- The object traveled about 7 m per second.
- There are 50 stars on each flag.
- An average of one hour of each day is spent knitting.
- There are five pencils for each student.
- Ratio: 5:100 or 1:20

(118)

Cross Multiplication (page 77)

1. $d = 4.5$
2. $b = 10$
3. $b = 4$
4. $c = 8$
5. $a = 2$
6. $a = 1$
7. $d = 15$
8. $d = 24$
9. $x = 75$
10. $a = 48$
11. $x = 5$
12. $a = 6$
13. $x = 2.\overline{66}$
14. $x = 3$
15. $x = 9$

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Proportions 2 (page 78)

1. 4
2. 8
3. 12
4. 9
5. 81
6. 20
7. 2
8. 24
9. 2.5
10. 8
11. 5
12. 5
13. 16
14. 30
15. 9
16. 7.5
17. 21
18. 5
19. 15
20. 12

123

Ratio and Proportion (page 80)

1. 28/1
2. 13/21
3. 4:5
4. 1:11
5. 1:4
6. 2:3
7. 2
8. 24
9. 2.5
10. 8
11. 5
12. 5
13. 15
14. 12
15. 250 mi./day
16. \$9.75

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