

Summer Mathematics Packet Answer Key

Answers to Write Numbers in Words and Digits [Pg. 1]

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|---|------------------|
| 1. Five hundred sixty and eight hundredths | 6. 0.045 |
| 2. Seven and sixteen thousandths | 7. 17.07 |
| 3. Twenty-four and forty-seven hundredths | 8. 5,300,029.6 |
| 4. Six thousand three | 9. 6,000,000.005 |
| 5. Three million, five thousand, six hundred and seven hundredths | 10. 208,004 |

Answers to Rename Fractions, Percents, and Decimals [Pg. 2]

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|--------|---------|--------|
| 1. 0.2 | 2. 0.75 | 3. 0.5 |
|--------|---------|--------|

Note: The line above the number indicates a decimal that repeats forever.

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| 4. $0.\overline{3}$ | 5. 0.8 | 6. $0.\overline{6}$ |
| 7. 20% | 8. 75% | 9. 50% |
| 10. $33\frac{1}{3}\%$ | 11. 80% | 12. $66\frac{2}{3}\%$ |
| 13. $8\% = 0.08$ | 14. $60\% = 0.6$ | 15. $11\% = 0.11$ |
| 16. $12\% = 0.12$ | 17. $40\% = 0.4$ | 18. $95\% = 0.95$ |

Answers to Order Decimals [Pg. 3]

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|------------------------------|-------------------------------|
| 1. .08, .6, 4, 20 | 2. 244.9, 246.5, 246.8, 248.6 |
| 3. .89, .987, 1.03, 2.4 | 4. .879, 2.68, 8.47, 14.8 |
| 5. 5.12, 5.29, 5.3, 5.38 | 6. 52.98, 54.89, 56.3, 58.1 |
| 7. .006, .07, .8, 4 | 8. 3.456, 7.24, 64.4, 297 |
| 9. 793.8, 794, 794.65, 794.7 | 10. 6.7, 7.24, 9, 14 |
| 11. 4.07, 4.19, 4.2, 4.3 | 12. .45, 3.75, 3.8, 6.7 |

Answers to Add and Subtract Whole Numbers [Pg. 4]

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|-----------|------------|-----------|
| 1. 14,217 | 2. 118,906 | 3. 4,698 |
| 4. 61,801 | 5. 88,685 | 6. 13,881 |
| 7. 29,026 | 8. 134 | 9. 6,540 |

Answers to Multiply and Divide Whole Numbers [Pg. 5]

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|-----------|---------|----------|-----------|
| 1. 12,614 | 2. 325 | 3. 4,613 | 4. 11,803 |
| 5. 405 | 6. 26 | 7. 234 | 8. 41 |
| 9. 209 | 10. 240 | 11. 201 | 12. 421 |

Answers to Add Mixed Numbers [Pg. 6]

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|--------------------|----------------------|---------------------|-------------------|----------------------|
| 1. $10\frac{3}{4}$ | 2. $10\frac{13}{15}$ | 3. $9\frac{1}{10}$ | 4. $9\frac{5}{8}$ | 5. $13\frac{13}{14}$ |
| 6. $6\frac{8}{9}$ | 7. $10\frac{7}{12}$ | 8. $7\frac{11}{12}$ | 9. $6\frac{8}{9}$ | |

Answers to Subtract Mixed Numbers [Pg. 7]

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|--------------------|--------------------|--------------------|---------------------|-------------------|
| 1. $2\frac{1}{12}$ | 2. $6\frac{1}{12}$ | 3. $3\frac{5}{12}$ | 4. $1\frac{11}{20}$ | 5. $4\frac{1}{4}$ |
| 6. $1\frac{1}{5}$ | 7. $5\frac{1}{5}$ | 8. $3\frac{1}{2}$ | 9. $\frac{1}{8}$ | |

Answers to Multiply Fractions and Solve Proportions [Pg. 8]

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|-------------|-------------------|-------------------|-------------------|-------------------|
| 1. 3 | 2. $1\frac{2}{5}$ | 3. $1\frac{3}{5}$ | 4. $2\frac{4}{7}$ | 5. $3\frac{1}{5}$ |
| 6. 4 | 7. $1\frac{3}{4}$ | 8. $n = 4$ | 9. $n = 7$ | 10. $n = 5$ |
| 11. $n = 1$ | 12. $n = 28$ | 13. $n = 4$ | 14. $n = 27$ | 15. $n = 6$ |

Answers to Add and Subtract Decimals [Pg. 9]

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|------------|------------|------------|------------|------------|
| 1. 23.1 | 2. 244.538 | 3. 71.497 | 4. 90.808 | 5. 578.34 |
| 6. 7.35 | 7. 50.716 | 8. 414.507 | 9. 61.35 | 10. 4.568 |
| 11. 31.31 | 12. 1.188 | 13. 44.16 | 14. 712.6 | 15. 650.63 |
| 16. 145.65 | 17. 34.825 | 18. 24.2 | 19. 185.04 | 20. 12.57 |

Answers to Multiply and Divide Decimals [Pg. 10]

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|-----------|-----------|-----------|----------|
| 1. 8.82 | 2. 2.001 | 3. 18.774 | 4. 2.604 |
| 5. 162.15 | 6. 14.445 | 7. 4295.8 | 8. 42.9 |
| 9. 2.01 | 10. 3.69 | 11. 3.256 | |

Answers to Find Percent of a Number [Pg. 11]

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|----------|-----------|----------|-----------|
| 1. 135 | 2. 2.94 | 3. 32.1 | 4. 8.1 |
| 5. 208 | 6. 51.2 | 7. 51.12 | 8. 5.7 |
| 9. 87 | 10. 414.8 | 11. 675 | 12. 2.52 |
| 13. 46.8 | 14. 19.2 | 15. 43.5 | 16. 12.96 |

Answers to Reading Scales & Finding Area and Perimeter [Pg. 12]

- A = 11 inches, B = 6 inches, and C = 9 inches
- 16 degrees Celsius
- 160 ml
- a. A = 1,008 square ft
P = 132 feet
- b. A = 36 square meters
P = 24 meters
- c. A = 180 square ft
P = 54 feet

Answers to Choose an Appropriate Unit of Measure [Pg. 13]

	<u>Standard</u>	<u>Metric</u>		<u>Standard</u>	<u>Metric</u>
1.	Gallons	Liters	7.	Inches	Centimeters
2.	Square inches	Square cm	8.	Cubic inches	Cubic cm
3.	Feet	Meters	9.	Pounds	Kilograms
4.	Ounces	Millimeters	10.	Square feet	Square cm
5.	Feet	Meters	11.	Ounces	Grams
6.	Cubic inches	Cubic cm			

Answers to Find Elapsed Time [Pg. 14]

- 6 hours 45 minutes
- 9 hours
- 1:30 p.m.
- 2:15 p.m.
- 3 hours 55 minutes

Answers to Use Information from Tables and Graphs [Pg. 15]

- 300 kilometers. (Be sure the answer is labeled).
- New York to Baltimore
- Richmond and New York
- $250 - 75 = 175$ dozen sodas
- January and May.

Answers to Find the Average of a Set of Numbers [Pg. 16]

- Monday = 72
Thursday = 72
- Tuesday = 74.75
Friday = 75.5
- Wednesday = 74.25
- George's average score is 88
Challenge: He needs a 98 on his fifth test.
- Tina's average score is 144.
Challenge: She needs a 150 to average 145.

Answers to Use Formulas & Choose Reasonable Answers [Pg. 17]

1. A 5 mile trip would be \$6.75, a 12 mile trip would be \$15.50.
A 20 mile trip would only be \$25.50, so \$45 is unreasonable.
2. The profit would be \$65.00 for the winter coat.
A \$9,000 profit is possible for a \$16,000 car if it cost \$7,000 to make.
3. 51 and $\frac{2}{3}$ (or 51.67) words per minute.
It is not possible to type fast enough to type 1,000 words per minute.

Answers to Solve Money Problems [Pg. 18]

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|---------------|---------------|-------------|-------------|
| 1. \$306.00 | 2. \$142.85 | 3. \$663.45 | 4. \$178.79 |
| 5. \$4,963.32 | 6. \$5,460.00 | 7. \$30.95 | |

Answers to Solve Problems using Percent [Pg. 19]

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|---|----------------|---------------|
| 1. \$161.70 | 2. \$50.00 | 3. \$3,179.00 |
| 4. The discount is \$49.35, the sale price is \$115.15. | | |
| 5. \$147.00 | 6. \$10,000.00 | |

Answers to Make Change [Pg. 20]

1. 1 ten dollar bill, 1 five dollar bill, 2 one dollar bills, 2 quarters, 1 dime, and 3 pennies.
2. 1 ten dollar bill, 2 quarters, 1 dime, and 1 nickel.
3. 1 five dollar bill, 1 one dollar bill, 2 quarters, 2 dimes, and 2 pennies.
4. 4 one dollar bills, 1 quarter, 1 nickel, and 3 pennies.
5. 1 five dollar bill, 4 one dollar bills, and 1 nickel.
6. 1 five dollar bill, 1 quarter, 1 dime, and 2 pennies.