

PARENT PACKET

Sail into Summer with Math!



For Students Entering Math 7

This summer math booklet was developed to provide students an opportunity to review grade level math objectives and to improve math performance.

Summer 2008

Math 7 Summer Mathematics Packet Answer Key

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

- | | |
|---|------------------|
| 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]

1. A = 11 inches, B = 6 inches, and C = 9 inches
2. 16 degrees Celsius
3. 160 ml
- 4a. 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> | |
|-----------------|---------------|---------------|--|
| 1. | Gallons | Liters | |
| 2. | Square inches | Square cm | |
| 3. | Feet | Meters | |
| 4. | Ounces | Millimeters | |
| 5. | Feet | Meters | |
| 6. | Cubic inches | Cubic cm | |
| 7. | Inches | Centimeters | |
| 8. | Cubic inches | Cubic cm | |
| 9. | Pounds | Kilograms | |
| 10. | Square feet | Square cm | |
| 11. | Ounces | Grams | |

Answers to Find Elapsed Time [Pg. 14]

1. 6 hours 45 minutes
2. 9 hours
3. 1:30 p.m.
4. 2:15 p.m.
5. 3 hours 55 minutes

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

1. 300 kilometers. (Be sure the answer is labeled).
2. New York to Baltimore
3. Richmond and New York
4. $250 - 75 = 175$ dozen sodas
5. January and May.

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

1. Monday = 72
Thursday = 72
- Tuesday = 74.75
Friday = 75.5
- Wednesday = 74.25
2. George's average score is 88
- Challenge: He needs a 98 on his fifth test.
3. 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.