

1.1 Whole Number Addition

Answers

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|------------|-------------|------------|------------|-------------|
| 1. 179 | 2. 353 | 3. 800 | 4. 576 | 5. 182 |
| 6. 1,091 | 7. 2243 | 8. 3,623 | 9. 8,572 | 10. 8,498 |
| 11. 20,498 | 12. 28,148 | 13. 30,899 | 14. 48,308 | 15. 28,028 |
| 16. 48,098 | 17. 134,498 | 18. 99,598 | 19. 87,098 | 20. 107,998 |

1.2 Whole Number Subtraction

Answers

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|------------|------------|------------|------------|------------|-------------|
| 1. 35 | 2. 27 | 3. 248 | 4. 218 | 5. 327 | 6. 1,311 |
| 7. 3,066 | 8. 1,125 | 9. 8,884 | 10. 19,954 | 11. 26,574 | 12. 10,603 |
| 13. 32,793 | 14. 55,602 | 15. 83,408 | 16. 27,612 | 17. 3,603 | 18. 114,603 |

1.3 Whole Number Multiplication

Answers

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|------------|-------------|---------------|----------------|---------------|-------------|
| 1. 272 | 2. 804 | 3. 2,958 | 4. 1,116 | 5. 3,795 | 6. 60,489 |
| 7. 270,413 | 8. 215,644 | 9. 42,435 | 10. 144,378 | 11. 41,652 | 12. 190,152 |
| 13. 77,112 | 14. 530,612 | 15. 1,400,672 | 16. 11,060,292 | 17. 7,954,272 | |

1.4 Whole Number Division

Answers

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|-------|------------|-------------|---------|---------|--------|---------|---------|
| 1. 2 | 2. 3 r 1 | 3. 18 r 6 | 4. 31 | 5. 26 | 6. 36 | 7. 27 | 8. 25 |
| 9. 87 | 10. 31 r 4 | 11. 13 r 14 | 12. 204 | 13. 222 | 14. 60 | 15. 510 | 16. 112 |

1.5 Estimation of Whole Number Addition and Subtraction

Answers

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|----------------------|-------------------------|-----------------------|------------------------|
| 1. $50 + 60 = 110$ | 2. $30 + 50 = 80$ | 3. $20 + 50 = 70$ | 4. $100 + 90 = 190$ |
| 5. $100 + 90 = 190$ | 6. $300 + 500 = 800$ | 7. 800 | 8. $700 + 400 = 1,100$ |
| 9. $200 + 300 = 500$ | 10. $700 + 400 = 1,100$ | 11. $20 - 10 = 10$ | 12. $50 - 10 = 40$ |
| 13. $60 - 10 = 50$ | 14. $80 - 10 = 70$ | 15. $200 - 100 = 100$ | 16. $90 - 70 = 20$ |
| 17. $100 - 30 = 70$ | 18. $400 - 100 = 300$ | 19. $600 - 100 = 500$ | 20. $800 - 100 = 700$ |

1.6 Estimation of Whole Number Multiplication and Division

Answers

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|--------|--------|--------|----------|---------|--------|
| 1. 200 | 2. 400 | 3. 200 | 4. 400 | 5. 1600 | 6. 300 |
| 7. 300 | 8. 300 | 9. 600 | 10. 1000 | 11. 7 | 12. 2 |
| 13. 5 | 14. 10 | 15. 2 | 16. 5 | 17. 8 | 18. 5 |
| 19. 40 | 20. 40 | | | | |

1.7 Whole Number Exponents

Answers

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|------------------------------|------------------------------|-----------------------------|---------------------------|------------|--------|
| 1. three squared | 2. Five to the fifth power | 3. Six cubed | 4. Two to the sixth power | | |
| 5. Three to the fourth power | 6. Seven to the fourth power | 7. Five squared | | | |
| 8. Two to the fourth power | 9. Three cubed | 10. Nine to the third power | 11. 9 | | |
| 12. 3, 125 | 13. 216 | 14. 64 | 15. 81 | 16. 2, 401 | 17. 25 |
| 18. 16 | 19. 27 | 20. 729 | | | |

1.8 Values Written as Powers

Answers

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|------------|------------|-----------|------------|------------|-------------|----------|
| 1. 4^3 | 2. 3^4 | 3. 2^2 | 4. 9^5 | 5. 10^7 | 6. 1^{10} | 7. 3^6 |
| 8. 4^2 | 9. 7^3 | 10. 6^4 | 11. 11^3 | 12. 12^2 | 13. 18^3 | |
| 14. 21^4 | 15. 17^2 | | | | | |

1.9 Evaluation and Comparison of Powers

Answers

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|--------|----------|--------|--------|----------|-------|
| 1. 4 | 2. 9 | 3. 36 | 4. 343 | 5. 4,096 | 6. 64 |
| 7. 243 | 8. 1,296 | 9. 125 | 10. 1 | 11. = | 12. > |
| 13. < | 14. > | 15. > | | | |

1.10 Numerical Expression Evaluation with Basic Operations

Answers

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|--------|--------|--------|--------|--------|--------|
| 1. 21 | 2. 22 | 3. 48 | 4. 14 | 5. 34 | 6. 41 |
| 7. 3 | 8. 16 | 9. 38 | 10. 44 | 11. 18 | 12. 39 |
| 13. 13 | 14. 24 | 15. 19 | | | |

1.11 Numerical Expression Evaluation with Grouping Symbols

Answers

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|--------|---------|---------|--------|--------|---------|
| 1. 14 | 2. 42 | 3. 6 | 4. 78 | 5. 241 | 6. 17 |
| 7. 39 | 8. 21 | 9. 15 | 10. 52 | 11. 40 | 12. 173 |
| 13. 17 | 14. 192 | 15. 124 | | | |

1.12 Numerical Expression Evaluation

Answers

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|--|---|----------|----------|-------------------------------|----------|
| 1. True | 2. False | 3. False | 4. True | 5. False | 6. False |
| 7. False | 8. True | 9. False | 10. True | 11. $4 + (5 - 2) + 3 - 2 = 8$ | |
| 12. $(2 + 3) \times 2 - 4 = 6$ | 13. $1 + (9 \times 4 \times 3) + 2 - 1 = 110$ | | | | |
| 14. $(7 + 4) \times 3 - 5 \times 2 = 23$ | 15. $2^2 + 5 \times (8 - 3) + 4 = 33$ | | | | |

1.13 Single Variable Expressions

Answers

1. 9 2. 11 3. 13 4. 4 5. 54 6. 40 7. 42
8. 36 9. 20 10. 4 11. 7 12. 3 13. 60 14. 45
15. 3

1.14 Expressions with One or More Variables

Answers

1. 7 2. 16 3. 5 4. 6 5. 9 6. 22 7. 14
8. 24 9. 10 10. 5 11. 7 12. 12 13. 15 14. 39
15. 1

1.15 Words that Describe Patterns

Answers

1. 3.75 2. 1.75 3. 3.00 4. 4.50 5. 6.65 6. 2.30
7. 6.65 8. 6.75 9. 7.20 10. 6.57 11. 8.50 12. 13.65
13. 31.35 14. 28.70 15. 24.37 16. 24.07

1.16 Problem Solving Models

Answers

1. \$56.00 2. \$280 3. \$1,120 4. \$11.200 5. \$10,943.01 6. 3 – 4 times
7. 36 kg 8. 48 kg 9. 144 kg 10. 432 kg 11. 576 kg 12. 135 ft.
13. No 14. 9 15. 50 pounds 16. 686 lbs. 17. 2, 744 lbs
18. 8 steps 19. 24 steps 20. 60 hours

1.17 Guess and Check, Work Backwards

Answers

1. 2000 lbs 2. 1,650 lbs 3. 100 hours 4. 12 hours 5. 440 lbs 6. 330 lbs
7. 350 lbs 8. 14, 410 lbs 9. 14, 850 lbs 10. 7 fish, yes 11. Day six 12. 20 fish
13. 6 fish 14. 7 15. 140 fish

1.18 Problem Solving Plan, Mental Math

Answers

1. \$200.00 2. 200 pints 3. 4 strawberries 4. 175 strawberries 5. 7 pints
6. 100 7. 354 8. 125 9. 115 10. \$15 11. \$90
12. yes 13. \$10 14. 12 15. 11 16. \$4 17. 17
18. 34 19. 50 minutes 20. 15 minutes