

**GRADE 10 ESSENTIAL
UNIT X - REVIEW OF PRIOR GRADES
WHOLE NUMBERS AND DECIMALS
PURPLE PRISM WORKBOOK ANSWERS**

These answers have been checked for errors, but nevertheless there may be one or two errors

PRETEST

Reasonable success at this Pre-Test suggests you will likely only need to do a very few practice problems in the remaining lessons.

- 1a. 12,078 b. 39.7 c. 276,132 d. 58.31
e. 210.333
- 2a. 1,862 b. 54.78 c. 394,637 d. 7.194
e. 744
- 3a. 3,443 b. 5.6 c. 462,506 d. 9.45
e. 281.693
- 4a. 3,432 b. 780,912 c. 77.904 d. 43.1277
- 5a. 1,032,934 b. 553.466 c. 321 d. 13 R26
- 6a. 22R2 b. 165 c. 610 d. 2.46

PRETEST PROBLEM SOLVE

1. 6,193.50 2. 113,945 3. 120,138.50
4. 4,636 5. 316

LESSON 1 (Addition of Whole Numbers)

- 1a. 37 b. 297 c. 5,636 d. 47,539 e. 653,635
- 2a. 76 b. 675 c. 6,683 d. 86,745 e. 888,985
- 3a. 177 b. 898 c. 7,917 d. 87,864 e. 868,852
- 4a. 243 b. 2,887 c. 9,820 d. 99,146 e. 901,209
- 5a. 308 b. 3,049 c. 24,572 d. 127,840 e. 1,585,881
- 6a. b. c. d. e.

LESSON 1 PROBLEM SOLVING

1. 3,187 books 2. 506 pieces 3. \$633,408
4. 394 km 5. 935 km 6. \$73 7. 25,862 km

LESSON 2 – SUBTRACTION (Whole Numbers)

- 1a. 31 b. 311 c. 4,111 d. 14,411 e. 301,336
 2a. 45 b. 616 c. 5,341 d. 73,531 e. 451,261
 3a. 21 b. 809 c. 4,625 d. 47,329 e. 181,109
 4a. 19 b. 451 c. 3,791 d. 11,571 e. 345,087
 5a. 38 b. 386 c. 111 d. 64,851 e. 353,765
 6a. 18 b. 308 c. 5,058 d. 52,547 e. 482,811
 7a. 54 b. 413 c. 5,867 d. 37,835 e. 185,989

LESSON 2 – PROBLEM SOLVING

1. 5,588 more people 2. \$958 more
 3. \$1 more 4. 368 more 5. 202 km more
 6. \$30 7. 32 more

LESSON 3 – MULTIPLICATION (Whole Numbers)

- 1a. 252 b. 864 c. 4,753 d. 6,936 e. 60,784
 2a. 1,360 b. 23,800 c. 9,116 d. 110,080
 e. 272,182
 3a. 682,000 b. 68,160 c. 85,436 d. 441,168
 e. 3,983,250
 4a. 298,200 b. 597,550 c. 403,300 d. 7,484,059
 e. 6,506,203

LESSON 3 – WORD PROBLEMS

1. 627 band members 2. 12,376 kg
 3. 3,135 stirrers 4. 235 km
 5. \$5 6. \$42 7. \$133

LESSON 4 – DIVISION (Whole Numbers) (Quotient and Remainder)

- 1a. 76 R3 b. 8 R31 c. 12 d. 7 R114
 e. 5 R249
 2a. 203 R4 b. 25 R32 c. 120 R65 d. 14 R1
 e. 19 R498
 3a. 6,254 b. 151 R43 c. 2,285 R31 d. 102 R16
 e. 257 R139

LESSON 4 - PROBLEM SOLVING

1. \$60
2. 6 packages
3. 19 rafts
4. \$42
5. 20 boxes
6. 11 bottles
7. 12 boxes

LESSON 5 – PROBLEM SOLVING

1. 806 flyers
2. 93 more goals
3. 1400 km
4. 82 bricks
5. 1,125 kg less
6. 7,920 kg
7. 723 boxes; 18 items left over

LESSON 5 - PROBLEM SOLVING

1. 419 more members
2. 13,125 kg
3. 21,587 km
4. 146 tables
5. 74,375 hours
6. 5,922 greater
7. 476.333333333 km

LESSON 6 – ADDITION AND SUBTRACTION (Decimal numbers)

- 1a. 3.9 b. 61.4 c. 95.77 d. 35.86 e. 69.967
- 2a. 1.5 b. 23.8 c. 53.48 d. 49.21 e. 75.117
- 3a. 13.9 b. 25.8 c. 97.63 d. 38.74 e. 71.656
- 4a. 33.58 b. 10.658 c. 23.565 d. 17.186 e. 18.593
- 5a. 134.06 b. 4.269 c. 141.061 d. 34.257 e. 178.269

LESSON 6 – PROBLEM SOLVING

1. 2.67 m
2. 0.78 mteres more
3. \$185.45
4. \$10.45
5. 0.028
6. 1.009 cm
7. 5.84 m
8. \$93.44

LESSON 7 – MULTIPLICATION (decimals)

- 1a. 162.5 b. 36.56 c. 268.8 d. 117.46 e. 78.885
- 2a. 2.826 b. 1.561 c. 3.753 d. 0.2508 e. 1.3424
- 3a. 0.5338 b. 451.58 c. 0.29522 d. 0.33304 e. 430.94
- 4a. 42.5736 b. 20.7904 c. 320.396 d. 457.678 e. 13.70152
- 5a. 4.65 b. 1.65164 c. 5.91426 d. 14.3226 e. 9.02275

LESSON 7 - PROBLEM SOLVING

- | | | |
|-------------|------------------|--------------|
| 1. 103.8 kg | 2. 54 truckloads | 3. 155.28 kg |
| 4. 101.4 L | 5. 30.875 L | 6. \$33.48 |
| 7. 1.075 cm | 8. 7.5 km | |

LESSON 8 – DIVISION (with Decimal Numbers)

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|----------|---------|---------|-----------|
| 1a. 5 | b. 0.5 | c. 9 | d. 0.7 |
| 2a. 2.7 | b. 80 | c. 53 | d. 0.12 |
| 3a. 26.6 | b. 25.1 | c. 20.7 | d. 0.0367 |

LESSON 8 - Problem Solving

- | | | |
|--------------------|-------------------------|-------------|
| 1. 10.2 m long | 2. 25 cans | 3. 16 cans |
| 4. 1,125 sheets | 5. 4 kg | 6. 30 hours |
| 7. 255 corn flakes | 8. 0.03 of a revolution | |

PRACTICE TEST

- | | | | |
|-------------|------------------|--------------------------|-------------|
| 1a. 8,853 | b. 99.26 | c. 169,173 | d. 72.386 |
| 2a. 43.02 | b. 20,977 | c. 2.735 | d. 42,312 |
| 3a. 7,990 | b. 17.1 | c. 7.37 | d. 106.038 |
| 4a. 13,608 | b. 1,345,890 | c. 2,499.42 | d. 0.014053 |
| 5a. 228,484 | b. 11.448504 | c. 231.0597015 or 231 R4 | |
| | d. 4.89 or 4 R89 | | |
| 6a. 468 | b. 7.9 | c. 6.9 | d. 0.12 |