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# Extra Practice 1

## Lesson 1: Understanding Large Numbers

**1.** Write each number in standard form.
- **a)** 2 million 186 thousand 23
- **b)** 40 000 000 + 6 000 000 + 80 000 + 1000 + 3
- **c)** six billion two hundred seventeen million three thousand eleven

**2.** Write each number in expanded form.
- **a)** 13 463 121
- **b)** 37 214 001 002

**3.** Write the value of each underlined digit.
- **a)** 1<u>8</u>4 267 317
- **b)** 4 300 <u>6</u>27 803
- **c)** 1<u>7</u> 652 425

**4.** Use the digits from 1 to 8. Use each digit only once.
Make an 8-digit number as close to 17 000 000 as possible.

## Lesson 2: Comparing and Ordering Numbers

**1.** Order the numbers from least to greatest.
- **a)** 6 743 184, 6 740 301, 5 946 125
- **b)** 97 126 142, 2 847 761 000, 99 404 326

**2.** Replace each  with > or <.
- **a)** 16 327 482  16 341 001
- **b)** 2 176 314  846 327

**3.** Use the digits 1, 2, 3, 4, 5, 6, 7, and 8.
- **a)** Write the greatest number possible.
- **b)** Write a number between 31 000 000 and 31 500 000

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# Extra Practice 2

## Lesson 3: Prime and Composite Numbers

**1.** List all the factors of each number.

**a)** 14 **b)** 48 **c)** 24 **d)** 60
**e)** 75 **f)** 15 **g)** 35 **h)** 17

**2.** Tell if each number is prime or composite.

**a)** 2 **b)** 19 **c)** 28 **d)** 36
**e)** 37 **f)** 75 **g)** 29 **h)** 70

**3.** Three numbers between 40 and 50 are prime numbers. What numbers are they?

**4.** Two numbers between 50 and 60 are prime numbers. What numbers are they?

## Lesson 5: Using Mental Math

Use mental math.

**1.** Add.

**a)** 240 + 60 + 17 **b)** 180 + 157 + 120 **c)** 46 + 70 + 130
**d)** 425 + 216 + 375 **e)** 30 + 90 + 70 **f)** 89 + 150 + 250

**2.** Subtract.

**a)** 784 – 263 **b)** 214 – 203 **c)** 862 – 461
**d)** 2467 – 932 **e)** 572 – 241 **f)** 9376 – 4124

**3.** Multiply.

**a)** $5 \times 7 \times 20$ **b)** $5 \times 26$ **c)** $86 \times 4$
**d)** $93 \times 10 \times 10$ **e)** $50 \times 36 \times 2$ **f)** $350 \times 2 \times 2$

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# Extra Practice 3

## Lesson 6: Adding and Subtracting Whole Numbers

**1.** Add. Use estimation to check.

**a)**
$$\begin{array}{r} 436 \\ 715 \\ 924 \\ +\ 673 \\ \hline \end{array}$$

**b)**
$$\begin{array}{r} 169 \\ 836 \\ 573 \\ +\ 944 \\ \hline \end{array}$$

**c)**
$$\begin{array}{r} 761 \\ 143 \\ 876 \\ +\ 510 \\ \hline \end{array}$$

**d)**
$$\begin{array}{r} 847 \\ 362 \\ 718 \\ +\ 49 \\ \hline \end{array}$$

**2.** Subtract. Use the inverse operation to check.

**a)**
$$\begin{array}{r} 9763 \\ -\ 4872 \\ \hline \end{array}$$

**b)**
$$\begin{array}{r} 6009 \\ -\ 4378 \\ \hline \end{array}$$

**c)**
$$\begin{array}{r} 5408 \\ -\ 369 \\ \hline \end{array}$$

**d)**
$$\begin{array}{r} 7284 \\ -\ 2548 \\ \hline \end{array}$$

**3.** Find the missing digits.

**a)**
$$\begin{array}{r} -3\ 5\ 8\ 9 \\ \hline 4\ 0\ 5\ 3 \end{array}$$

**b)**
$$\begin{array}{r} -\ 7\ 3\ 6 \\ \hline 8\ 1\ 6\ 8 \end{array}$$

**c)**
$$\begin{array}{r} -2\ 6\ 0\ 9 \\ \hline 4\ 5\ 3\ 1 \end{array}$$

## Lesson 7: Estimating Products and Quotients

**1.** Estimate each product.

**a)** 596 x 24 **b)** 454 x 19 **c)** 318 x 71
**d)** 638 x 98 **e)** 712 x 16 **f)** 685 x 38

**2.** Estimate each quotient.

**a)** 653 ÷ 32 **b)** 185 ÷ 89 **c)** 435 ÷ 69
**d)** 678 ÷ 19 **e)** 102 ÷ 49 **f)** 386 ÷ 24

**3.** Which compatible numbers would you use to estimate each product or quotient?

**a)** 476 ÷ 23 **b)** 754 x 11 **c)** 619 x 49
**d)** 795 ÷ 26 **e)** 491 x 38 **f)** 376 ÷ 62

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# Extra Practice 4

## Lesson 8: Multiplying Whole Numbers

**1.** Multiply.

**a)** $\begin{array}{r} 736 \\ \times\ 43 \\ \hline \end{array}$ **b)** $\begin{array}{r} 984 \\ \times\ 17 \\ \hline \end{array}$ **c)** $\begin{array}{r} 862 \\ \times\ 95 \\ \hline \end{array}$ **d)** $\begin{array}{r} 579 \\ \times\ 56 \\ \hline \end{array}$

**e)** $\begin{array}{r} 879 \\ \times\ 23 \\ \hline \end{array}$ **f)** $\begin{array}{r} 604 \\ \times\ 63 \\ \hline \end{array}$ **g)** $\begin{array}{r} 747 \\ \times\ 73 \\ \hline \end{array}$ **h)** $\begin{array}{r} 829 \\ \times\ 35 \\ \hline \end{array}$

**2.** Find each product.

**a)** $24 \times 709$ **b)** $18 \times 932$ **c)** $41 \times 672$ **d)** $80 \times 270$

**e)** $91 \times 531$ **f)** $37 \times 700$ **g)** $62 \times 853$ **h)** $12 \times 246$

**3.** Estimate the product $31 \times 398$.
Will the product be closer to 11 000 or 12 000?
How do you know?

## Lesson 9: Dividing by a 2-Digit Number

**1.** Divide. Multiply to check.

**a)** $26\overline{)8979}$ **b)** $43\overline{)1806}$ **c)** $18\overline{)4564}$

**d)** $33\overline{)4681}$ **e)** $19\overline{)1684}$ **f)** $53\overline{)7689}$

**2.** Find each quotient.

**a)** $5842 \div 21$ **b)** $6793 \div 16$ **c)** $2175 \div 15$

**d)** $1941 \div 64$ **e)** $9922 \div 22$ **f)** $8532 \div 38$

**3.** Joopa says she is 186 months old.
How many years is that?

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# Extra Practice 5

## Lesson 10: Another Method for Dividing

**1.** Divide. Multiply to check.

**a)** $56\overline{)7952}$ **b)** $37\overline{)8429}$ **c)** $17\overline{)4328}$

**d)** $29\overline{)7134}$ **e)** $21\overline{)7304}$ **f)** $42\overline{)8432}$

**2.** Estimate each quotient. Then divide.

**a)** 738 ÷ 25 **b)** 2594 ÷ 50 **c)** 7584 ÷ 98

**d)** 5321 ÷ 12 **e)** 1285 ÷ 41 **f)** 3847 ÷ 19

**3.** Write a division question with a divisor of 41, a quotient of 123, and a remainder of 13.

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# Extra Practice Sample Answers

## Extra Practice 1 – Master 2.21

### Lesson 1

1. **a)** 2 186 023
   **b)** 46 081 003
   **c)** 6 217 003 011

2. **a)** 10 000 000 + 3 000 000 + 400 000 + 60 000 + 3000 + 100 + 20 + 1
   **b)** 30 000 000 000 + 7 000 000 000 + 200 000 000 + 10 000 000 + 4 000 000 + 1000 + 2

3. **a)** 8 000 000 **b)** 600 000 **c)** 7 000 000

4. 16 875 432

### Lesson 2

1. **a)** 5 946 125, 6 740 301, 6 743 184
   **b)** 97 126 142, 99 404 326, 2 847 761 000

2. **a)** 16 327 482 < 16 341 001
   **b)** 2 176 314 > 846 327

3. **a)** 87 654 321 **b)** 31 425 678

## Extra Practice 2 – Master 2.22

### Lesson 3

1. **a)** 1, 2, 7, 14
   **b)** 1, 2, 3, 4, 6, 8, 12, 16, 24, 48
   **c)** 1, 2, 3, 4, 6, 8, 12, 24
   **d)** 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60
   **e)** 1, 3, 5, 15, 25, 75
   **f)** 1, 3, 5, 15
   **g)** 1, 5, 7, 35
   **h)** 1, 17

2. **a)** prime **b)** prime **c)** composite
   **d)** composite **e)** prime **f)** composite
   **g)** prime **h)** composite

3. 41, 43, and 47

4. 53 and 59

### Lesson 5

1. **a)** 317 **b)** 457 **c)** 246
   **d)** 1016 **e)** 190 **f)** 489

2. **a)** 521 **b)** 11 **c)** 401
   **d)** 1535 **e)** 331 **f)** 5252

3. **a)** 700 **b)** 130 **c)** 344
   **d)** 9300 **e)** 3600 **f)** 1400

## Extra Practice 3 – Master 2.23

### Lesson 6

1. **a)** 2748 **b)** 2522
   **c)** 2290 **d)** 1976

2. **a)** 4891 **b)** 1631
   **c)** 5039 **d)** 4736

3. **a)** 7642 **b)** 8904 **c)** 7140

### Lesson 7

1. **a)** About 12 000 **b)** About 9000
   **c)** About 21 000 **d)** About 6000
   **e)** About 14 000 **f)** About 28 000

2. **a)** About 20 **b)** About 2
   **c)** About 7 **d)** About 34
   **e)** About 2 **f)** About 20

3. **a)** 480 ÷ 20 **b)** 750 × 10
   **c)** 600 × 50 **d)** 800 ÷ 20
   **e)** 500 × 40 **f)** 360 ÷ 60

## Extra Practice 4 – Master 2.24

### Lesson 8

1. **a)** 31 648 **b)** 16 728
   **c)** 81 890 **d)** 32 424
   **e)** 20 217 **f)** 38 052
   **g)** 54 531 **h)** 29 015

2. **a)** 17 016 **b)** 16 776
   **c)** 27 552 **d)** 21 600
   **e)** 48 321 **f)** 25 900
   **g)** 52 886 **h)** 2952

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**3.** Closer to 12 000; $30 \times 400 = 12\,000$

## Lesson 9

**1.** **a)** 345 R9 **b)** 42 **c)** 253 R10
**d)** 141 R28 **e)** 88 R12 **f)** 145 R4

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# Extra Practice Sample Answers continued

**2.** **a)** 278 R4 **b)** 424 R9 **c)** 145
**d)** 30 R21 **e)** 451 **f)** 224 R20

**3.** $15\frac{1}{2}$ years

## Extra Practice 5 – Master 2.25

### Lesson 10

**1.** **a)** 142 **b)** 227 R30 **c)** 254 R10
**d)** 246 **e)** 347 R17 **f)** 200 R32

**2.** **a)** Estimate: 30; 29 R13
**b)** Estimate: 50; 51 R44
**c)** Estimate: 75; 77 R33
**d)** Estimate: 500; 443 R5
**e)** Estimate: 32; 31 R14
**f)** Estimate: 200; 202 R9

**3.** 5056 ÷ 41 = 123 R1