Fluency Table of Contents

Multi-Digit Addition—Skills Practice

Name: _____

Add within 1,000,000. **Form A**

1 4,699 + 209

2 733,633 + 5,678

3 5,050 + 5,049

4 35,009 + 21,991

5 123,321 + 987

6 806,515 + 14,372

7 97,342 + 728

8 150,225 + 145,225

9 28,403 + 26,910

10 5,146 + 5,915

11 915,412 + 15,412

12 42,963 + 8,825

13 188,888 + 222,222

14 670,780 + 9,564

15 16,275 + 36,334

16 7,741 + 2,260

17 10,864 + 864

18 642,002 + 80,999

19 22,987 + 44,789

20 47,247 + 8,747

Multi-Digit Addition—Skills Practice

Name: _____

Add within 1,000,000. **Form B**

1 3,597 + 307	**2** 644,544 + 4,567	**3** 2,020 + 8,019	**4** 42,991 + 12,009
5 234,432 + 876	**6** 705,626 + 25,261	**7** 64,751 + 429	**8** 205,336 + 204,336
9 17,210 + 15,801	**10** 8,924 + 8,157	**11** 749,241 + 49,241	**12** 53,854 + 9,945
13 133,333 + 777,777	**14** 908,847 + 1,780	**15** 28,764 + 18,145	**16** 6,632 + 3,370
17 22,552 + 552	**18** 430,999 + 70,004	**19** 33,678 + 11,876	**20** 76,356 + 7,626

Multi-Digit Subtraction—Skills Practice

Name: _____

Subtract within 1,000,000. **Form A**

1 11,223 − 311

2 2,123 − 1,321

3 432,765 − 43,276

4 80,449 − 24,085

5 184,234 − 93,517

6 319,019 − 9,416

7 62,626 − 6,262

8 37,740 − 18,870

9 7,347 − 5,182

10 956,201 − 524,110

11 476,747 − 9,696

12 535 − 353

13 90,000 − 1,234

14 37,665 − 776

15 215,451 − 8,795

16 52,252 − 50,992

17 602,602 − 444,444

18 5,702 − 2,915

19 877,007 − 525

20 13,579 − 2,846

Multi-Digit Subtraction—Skills Practice

Name: _____

Subtract within 1,000,000. **Form B**

1 13,445 − 522

2 8,789 − 7,987

3 654,631 − 65,432

4 70,338 − 13,074

5 162,478 − 81,759

6 518,018 − 8,515

7 71,717 − 7,171

8 51,120 − 25,560

9 6,536 − 5,372

10 833,021 − 312,110

11 596,454 − 9,393

12 626 − 262

13 70,000 − 2,345

14 28,776 − 887

15 437,673 − 9,895

16 32,131 − 30,881

17 501,501 − 333,333

18 6,803 − 4,806

19 966,006 − 414

20 14,568 − 3,725

Multi-Digit Multiplication—Skills Practice

Name: _____

Multiply.

Form A

1 205 × 33

2 6,660 × 70

3 378 × 12

4 1,221 × 91

5 5,062 × 25

6 829 × 62

7 116 × 46

8 7,256 × 56

9 444 × 99

10 3,136 × 14

11 2,222 × 55

12 761 × 80

13 530 × 28

14 142 × 222

15 875 × 305

16 250 × 250

Multi-Digit Multiplication—Skills Practice

Name: _____

Multiply.

Form B

1 305 × 22

2 7,770 × 60

3 178 × 32

4 2,332 × 91

5 6,052 × 25

6 629 × 82

7 114 × 44

8 5,256 × 76

9 555 × 99

10 1,136 × 34

11 4,444 × 55

12 861 × 70

13 230 × 58

14 142 × 111

15 375 × 805

16 125 × 125

Multi-Digit Division—Skills Practice

Name: _____

Divide 3- and 4-digit dividends with mental math on some steps. **Form A**

1 $11\overline{)396}$

2 $20\overline{)6{,}040}$

3 $50\overline{)650}$

4 $21\overline{)1{,}575}$

5 $25\overline{)1{,}075}$

6 $40\overline{)760}$

7 $70\overline{)1{,}610}$

8 $22\overline{)968}$

9 $12\overline{)2{,}928}$

10 $31\overline{)961}$

11 $20\overline{)520}$

12 $30\overline{)3{,}360}$

Multi-Digit Division—Skills Practice

Name: _____

Divide 3- and 4-digit dividends with mental math on some steps. **Form B**

1 $11\overline{)286}$

2 $20\overline{)8,100}$

3 $50\overline{)850}$

4 $21\overline{)1,155}$

5 $25\overline{)1,150}$

6 $40\overline{)560}$

7 $60\overline{)1,380}$

8 $22\overline{)792}$

9 $12\overline{)1,464}$

10 $31\overline{)992}$

11 $20\overline{)540}$

12 $30\overline{)6,330}$

Multi-Digit Division—Skills Practice

Name: _____

Divide 3-, 4-, and 5-digit dividends with mental math on some steps. **Form A**

1 $50\overline{)950}$

2 $20\overline{)8{,}100}$

3 $21\overline{)672}$

4 $31\overline{)2{,}294}$

5 $22\overline{)1{,}782}$

6 $11\overline{)605}$

7 $30\overline{)780}$

8 $25\overline{)5{,}575}$

9 $25\overline{)10{,}625}$

10 $50\overline{)71{,}600}$

11 $50\overline{)26{,}600}$

12 $20\overline{)66{,}660}$

Multi-Digit Division—Skills Practice

Name: _____

Divide 3-, 4-, and 5-digit dividends with mental math on some steps. **Form B**

1 $50\overline{)850}$

2 $20\overline{)6,100}$

3 $21\overline{)462}$

4 $31\overline{)1,674}$

5 $22\overline{)2,002}$

6 $11\overline{)715}$

7 $30\overline{)720}$

8 $25\overline{)8,350}$

9 $25\overline{)11,250}$

10 $50\overline{)61,700}$

11 $50\overline{)26,150}$

12 $20\overline{)44,440}$

Multi-Digit Division—Skills Practice

Name: _____

Divide 3-, 4-, and 5-digit dividends.

Form A

1 $72\overline{)648}$

2 $30\overline{)2{,}880}$

3 $58\overline{)5{,}974}$

4 $18\overline{)828}$

5 $23\overline{)759}$

6 $40\overline{)960}$

7 $86\overline{)4{,}472}$

8 $12\overline{)7{,}632}$

9 $22\overline{)40{,}766}$

10 $15\overline{)10{,}875}$

11 $64\overline{)23{,}296}$

12 $20\overline{)91{,}340}$

Multi-Digit Division—Skills Practice

Name: _____

Divide 3-, 4-, and 5-digit dividends.

Form B

1 $74\overline{)592}$

2 $30\overline{)2,580}$

3 $56\overline{)5,936}$

4 $16\overline{)768}$

5 $33\overline{)825}$

6 $60\overline{)840}$

7 $88\overline{)4,488}$

8 $12\overline{)7,872}$

9 $42\overline{)59,010}$

10 $15\overline{)10,125}$

11 $62\overline{)21,452}$

12 $20\overline{)93,560}$

Multi-Digit Division—Repeated Reasoning

Name: _____

Find patterns with zeros.

Set A

1. $80\overline{)800}$
2. $80\overline{)8{,}000}$
3. $80\overline{)80{,}000}$
4. $40\overline{)800}$
5. $40\overline{)8{,}000}$
6. $40\overline{)80{,}000}$
7. $20\overline{)800}$
8. $20\overline{)8{,}000}$
9. $20\overline{)80{,}000}$

Set B

1. $200\overline{)8{,}000}$
2. $400\overline{)8{,}000}$
3. $800\overline{)8{,}000}$
4. $20\overline{)8{,}000}$
5. $40\overline{)8{,}000}$
6. $80\overline{)8{,}000}$
7. $2\overline{)8{,}000}$
8. $4\overline{)8{,}000}$
9. $8\overline{)8{,}000}$

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

Multi-Digit Division—Repeated Reasoning

Name: _____

Find patterns in dividing by 25 or 50.

Set A

1. $20\overline{)100}$
2. $25\overline{)100}$
3. $50\overline{)100}$
4. $20\overline{)200}$
5. $25\overline{)200}$
6. $50\overline{)200}$
7. $20\overline{)300}$
8. $25\overline{)300}$
9. $50\overline{)300}$

Set B

1. $20\overline{)1{,}100}$
2. $25\overline{)1{,}100}$
3. $50\overline{)1{,}100}$
4. $20\overline{)1{,}200}$
5. $25\overline{)1{,}200}$
6. $50\overline{)1{,}200}$
7. $20\overline{)1{,}300}$
8. $25\overline{)1{,}300}$
9. $50\overline{)1{,}300}$

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

Decimal Addition—Skills Practice

Name: _____

Add decimals through hundredths. **Form A**

1 $0.8 + 0.4 =$ _____

2 $0.33 + 0.66 =$ _____

3 $68.14 + 0.51 =$ _____

4 $0.05 + 0.5 =$ _____

5 $200.02 + 100.1 =$ _____

6 $4.7 + 1.3 =$ _____

7 $7.6 + 7.12 =$ _____

8 $1.26 + 2.21 =$ _____

9 $80.39 + 80.01 =$ _____

10
$$\begin{array}{r} 54.17 \\ +\ 4.92 \\ \hline \end{array}$$

11
$$\begin{array}{r} 1.91 \\ +\ 0.09 \\ \hline \end{array}$$

12
$$\begin{array}{r} 108.52 \\ +\ 258.01 \\ \hline \end{array}$$

13
$$\begin{array}{r} 55.22 \\ +\ 22.55 \\ \hline \end{array}$$

14
$$\begin{array}{r} 375.1 \\ +\ 525.7 \\ \hline \end{array}$$

15
$$\begin{array}{r} 0.6 \\ +\ 0.6 \\ \hline \end{array}$$

16
$$\begin{array}{r} 0.75 \\ +\ 0.45 \\ \hline \end{array}$$

17
$$\begin{array}{r} 9.24 \\ +\ 4.26 \\ \hline \end{array}$$

18
$$\begin{array}{r} 6.34 \\ +\ 3.6 \\ \hline \end{array}$$

19
$$\begin{array}{r} 549.99 \\ +\ 33.33 \\ \hline \end{array}$$

20
$$\begin{array}{r} 4.84 \\ +\ 1.82 \\ \hline \end{array}$$

21
$$\begin{array}{r} 48.4 \\ +\ 18.2 \\ \hline \end{array}$$

Decimal Addition—Skills Practice

Name: _____

Add decimals through hundredths. **Form B**

1 0.5 + 0.8 = _____

2 0.22 + 0.77 = _____

3 46.12 + 0.31 = _____

4 0.09 + 0.9 = _____

5 500.05 + 300.3 = _____

6 6.2 + 1.8 = _____

7 9.6 + 9.31 = _____

8 2.36 + 3.32 = _____

9 70.02 + 70.28 = _____

10
$$\begin{array}{r} 64.23 \\ +\ 4.86 \\ \hline \end{array}$$

11
$$\begin{array}{r} 2.92 \\ +\ 0.08 \\ \hline \end{array}$$

12
$$\begin{array}{r} 209.71 \\ +\ 389.02 \\ \hline \end{array}$$

13
$$\begin{array}{r} 44.33 \\ +\ 33.44 \\ \hline \end{array}$$

14
$$\begin{array}{r} 250.5 \\ +\ 550.2 \\ \hline \end{array}$$

15
$$\begin{array}{r} 0.7 \\ +\ 0.7 \\ \hline \end{array}$$

16
$$\begin{array}{r} 0.75 \\ +\ 0.65 \\ \hline \end{array}$$

17
$$\begin{array}{r} 8.13 \\ +\ 4.17 \\ \hline \end{array}$$

18
$$\begin{array}{r} 5.42 \\ +\ 4.5 \\ \hline \end{array}$$

19
$$\begin{array}{r} 329.99 \\ +\ 22.22 \\ \hline \end{array}$$

20
$$\begin{array}{r} 2.52 \\ +\ 1.92 \\ \hline \end{array}$$

21
$$\begin{array}{r} 25.2 \\ +\ 19.2 \\ \hline \end{array}$$

Decimal Addition—Repeated Reasoning

Name: _____

Find place value patterns.

Set A

1. 0.99 + 0.01 = _____
2. 2.99 + 3.01 = _____
3. 0.98 + 0.02 = _____
4. 2.98 + 3.02 = _____
5. 0.97 + 0.03 = _____
6. 2.97 + 3.03 = _____
7. 10.99 + 0.01 = _____
8. 20.99 + 30.01 = _____
9. 10.98 + 0.02 = _____
10. 20.98 + 30.02 = _____
11. 10.97 + 0.03 = _____
12. 20.97 + 30.03 = _____

Set B

1. 0.99 + 0.01
2. 2.99 + 3.01
3. 50.99 + 40.01
4. 0.99 + 0.02
5. 2.99 + 3.02
6. 50.99 + 40.02
7. 0.99 + 0.03
8. 2.99 + 3.03
9. 50.99 + 40.03

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

Decimal Subtraction—Skills Practice

Name: _____

Subtract decimals through hundredths. **Form A**

1 25.25 − 0.11 = _____

2 0.4 − 0.04 = _____

3 200.4 − 100.04 = _____

4 0.7 − 0.5 = _____

5 70.18 − 10.09 = _____

6 9.5 − 9.05 = _____

7 3.42 − 1.32 = _____

8 0.88 − 0.33 = _____

9 1.25 − 0.75 = _____

10
$$\begin{array}{r} 1.42 \\ -\ 0.43 \\ \hline \end{array}$$

11
$$\begin{array}{r} 1.6 \\ -\ 0.8 \\ \hline \end{array}$$

12
$$\begin{array}{r} 352.52 \\ -\ 108.08 \\ \hline \end{array}$$

13
$$\begin{array}{r} 4.36 \\ -\ 3.6 \\ \hline \end{array}$$

14
$$\begin{array}{r} 725.7 \\ -\ 175.2 \\ \hline \end{array}$$

15
$$\begin{array}{r} 9.36 \\ -\ 5.36 \\ \hline \end{array}$$

16
$$\begin{array}{r} 99.88 \\ -\ 88.77 \\ \hline \end{array}$$

17
$$\begin{array}{r} 99.88 \\ -\ 88.99 \\ \hline \end{array}$$

18
$$\begin{array}{r} 59.1 \\ -\ 25.8 \\ \hline \end{array}$$

19
$$\begin{array}{r} 5.91 \\ -\ 2.58 \\ \hline \end{array}$$

20
$$\begin{array}{r} 802.11 \\ -\ 22.22 \\ \hline \end{array}$$

21
$$\begin{array}{r} 65.62 \\ -\ 2.81 \\ \hline \end{array}$$

Decimal Subtraction—Skills Practice

Name: _____

Subtract decimals through hundredths. **Form B**

1 92.92 − 0.11 = _____

2 0.5 − 0.05 = _____

3 400.5− 200.05 = _____

4 0.8 − 0.2 = _____

5 50.14 − 10.07 = _____

6 3.2 − 3.02 = _____

7 4.46 − 2.26 = _____

8 0.66 − 0.22 = _____

9 1.25 − 0.5 = _____

10
$$\begin{array}{r} 1.61 \\ -\ 0.62 \\ \hline \end{array}$$

11
$$\begin{array}{r} 2.4 \\ -\ 1.2 \\ \hline \end{array}$$

12
$$\begin{array}{r} 591.91 \\ -\ 203.03 \\ \hline \end{array}$$

13
$$\begin{array}{r} 6.58 \\ -\ 5.8 \\ \hline \end{array}$$

14
$$\begin{array}{r} 955.9 \\ -\ 295.3 \\ \hline \end{array}$$

15
$$\begin{array}{r} 4.72 \\ -\ 1.72 \\ \hline \end{array}$$

16
$$\begin{array}{r} 77.66 \\ -\ 66.55 \\ \hline \end{array}$$

17
$$\begin{array}{r} 77.66 \\ -\ 66.77 \\ \hline \end{array}$$

18
$$\begin{array}{r} 89.1 \\ -\ 33.6 \\ \hline \end{array}$$

19
$$\begin{array}{r} 8.91 \\ -\ 3.36 \\ \hline \end{array}$$

20
$$\begin{array}{r} 603.22 \\ -\ 33.33 \\ \hline \end{array}$$

21
$$\begin{array}{r} 43.48 \\ -\ 1.74 \\ \hline \end{array}$$

Decimal Subtraction—Repeated Reasoning

Name: _____

Find place value patterns.

Set A

1. $1 - 0.01 =$ _____
2. $1 - 0.02 =$ _____
3. $2 - 1.01 =$ _____
4. $2 - 1.02 =$ _____
5. $3 - 2.01 =$ _____
6. $3 - 2.02 =$ _____
7. $11 - 10.01 =$ _____
8. $11 - 10.02 =$ _____
9. $12 - 11.01 =$ _____
10. $12 - 11.02 =$ _____
11. $13 - 12.01 =$ _____
12. $13 - 12.02 =$ _____

Set B

1. $\begin{array}{r} 1.1 \\ -\ 1.01 \\ \hline \end{array}$
2. $\begin{array}{r} 51.1 \\ -\ 1.01 \\ \hline \end{array}$
3. $\begin{array}{r} 101.1 \\ -\ 1.01 \\ \hline \end{array}$
4. $\begin{array}{r} 2.1 \\ -\ 1.01 \\ \hline \end{array}$
5. $\begin{array}{r} 52.1 \\ -\ 1.01 \\ \hline \end{array}$
6. $\begin{array}{r} 102.1 \\ -\ 1.01 \\ \hline \end{array}$
7. $\begin{array}{r} 3.1 \\ -\ 1.01 \\ \hline \end{array}$
8. $\begin{array}{r} 53.1 \\ -\ 1.01 \\ \hline \end{array}$
9. $\begin{array}{r} 103.1 \\ -\ 1.01 \\ \hline \end{array}$

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

Decimal Multiplication—Skills Practice

Name: _____

Multiply. **Form A**

1 $3 \times 0.6 =$ _____

2 $1.2 \times 1.2 =$ _____

3 $0.5 \times 4 =$ _____

4 $0.7 \times 0.2 =$ _____

5 $7 \times 0.02 =$ _____

6 $5.5 \times 0.1 =$ _____

7 $25 \times 0.01 =$ _____

8 $0.4 \times 0.08 =$ _____

9 $0.09 \times 10 =$ _____

10
$$\begin{array}{r} 3.7 \\ \times\ 0.4 \\ \hline \end{array}$$

11
$$\begin{array}{r} 1.8 \\ \times\ \ 4 \\ \hline \end{array}$$

12
$$\begin{array}{r} 6.12 \\ \times\ 0.5 \\ \hline \end{array}$$

13
$$\begin{array}{r} 3.06 \\ \times\ \ 2 \\ \hline \end{array}$$

14
$$\begin{array}{r} 0.31 \\ \times\ 0.6 \\ \hline \end{array}$$

15
$$\begin{array}{r} 1.75 \\ \times\ 2.5 \\ \hline \end{array}$$

16
$$\begin{array}{r} 0.11 \\ \times\ 14 \\ \hline \end{array}$$

17
$$\begin{array}{r} 4.1 \\ \times\ 5.2 \\ \hline \end{array}$$

18
$$\begin{array}{r} 3.33 \\ \times\ 2.2 \\ \hline \end{array}$$

19
$$\begin{array}{r} 33.3 \\ \times\ 0.22 \\ \hline \end{array}$$

20
$$\begin{array}{r} 0.5 \\ \times\ 15 \\ \hline \end{array}$$

21
$$\begin{array}{r} 11.1 \\ \times\ 0.09 \\ \hline \end{array}$$

Decimal Multiplication—Skills Practice

Name: _____

Multiply. **Form B**

1 $4 \times 0.4 =$ _____

2 $1.1 \times 1.1 =$ _____

3 $0.5 \times 6 =$ _____

4 $0.6 \times 0.2 =$ _____

5 $6 \times 0.02 =$ _____

6 $8.8 \times 0.1 =$ _____

7 $15 \times 0.01 =$ _____

8 $0.9 \times 0.04 =$ _____

9 $0.03 \times 10 =$ _____

10
$$\begin{array}{r} 5.4 \\ \times\ 0.3 \\ \hline \end{array}$$

11
$$\begin{array}{r} 1.3 \\ \times\ 5 \\ \hline \end{array}$$

12
$$\begin{array}{r} 8.24 \\ \times\ 0.5 \\ \hline \end{array}$$

13
$$\begin{array}{r} 4.12 \\ \times\ 2 \\ \hline \end{array}$$

14
$$\begin{array}{r} 0.72 \\ \times\ 0.3 \\ \hline \end{array}$$

15
$$\begin{array}{r} 1.25 \\ \times\ 7.5 \\ \hline \end{array}$$

16
$$\begin{array}{r} 0.11 \\ \times\ 16 \\ \hline \end{array}$$

17
$$\begin{array}{r} 6.2 \\ \times\ 5.1 \\ \hline \end{array}$$

18
$$\begin{array}{r} 2.22 \\ \times\ 4.4 \\ \hline \end{array}$$

19
$$\begin{array}{r} 22.2 \\ \times\ 0.44 \\ \hline \end{array}$$

20
$$\begin{array}{r} 0.5 \\ \times\ 25 \\ \hline \end{array}$$

21
$$\begin{array}{r} 11.1 \\ \times\ 0.08 \\ \hline \end{array}$$

Decimal Multiplication—Repeated Reasoning

Name: _____

Find place value patterns.

Set A

1. $3 \times 0.1 =$ _____
2. $3 \times 0.01 =$ _____
3. $3 \times 0.2 =$ _____
4. $3 \times 0.02 =$ _____
5. $3 \times 0.3 =$ _____
6. $3 \times 0.03 =$ _____
7. $3 \times 0.4 =$ _____
8. $3 \times 0.04 =$ _____
9. $3 \times 0.5 =$ _____
10. $3 \times 0.05 =$ _____

Set B

1. 4×0.2
2. 0.4×0.2
3. 0.04×0.2
4. 8×0.2
5. 0.8×0.2
6. 0.08×0.2
7. 12×0.2
8. 1.2×0.2
9. 0.12×0.2

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

_____

Decimal Division—Skills Practice

Name: _____

Divide decimals through hundredths. **Form A**

1. 3.2 ÷ 4 = _____
2. 12 ÷ 0.12 = _____
3. 2.8 ÷ 0.7 = _____
4. 0.9 ÷ 0.1 = _____
5. 6 ÷ 0.3 = _____
6. 1.15 ÷ 0.05 = _____
7. 1.32 ÷ 12 = _____
8. 1.32 ÷ 0.12 = _____
9. 0.8 ÷ 4 = _____
10. 1.04 ÷ 0.8 = _____
11. 3.6 ÷ 0.9 = _____
12. 30 ÷ 0.5 = _____
13. 24 ÷ 0.04 = _____
14. 1.2 ÷ 0.6 = _____
15. 1.2 ÷ 0.06 = _____
16. 0.15 ÷ 3 = _____
17. 3.33 ÷ 0.3 = _____
18. 28 ÷ 1.4 = _____
19. 1.05 ÷ 5 = _____
20. 1.05 ÷ 0.05 = _____
21. 0.49 ÷ 0.7 = _____
22. 0.8 ÷ 8 = _____
23. 4.4 ÷ 11 = _____
24. 0.36 ÷ 6 = _____

Decimal Division—Skills Practice

Name: _____

Divide decimals through hundredths. **Form B**

1. 2.4 ÷ 6 = _____
2. 13 ÷ 0.13 = _____
3. 3.5 ÷ 0.7 = _____
4. 0.2 ÷ 0.1 = _____
5. 8 ÷ 0.4 = _____
6. 1.05 ÷ 0.05 = _____
7. 1.44 ÷ 12 = _____
8. 1.44 ÷ 0.12 = _____
9. 0.6 ÷ 2 = _____
10. 1.12 ÷ 0.8 = _____
11. 4.2 ÷ 0.7 = _____
12. 45 ÷ 0.5 = _____
13. 36 ÷ 0.09 = _____
14. 1.8 ÷ 0.6 = _____
15. 1.8 ÷ 0.06 = _____
16. 0.21 ÷ 3 = _____
17. 2.22 ÷ 0.2 = _____
18. 24 ÷ 1.2 = _____
19. 1.25 ÷ 5 = _____
20. 1.25 ÷ 0.05 = _____
21. 0.64 ÷ 0.8 = _____
22. 0.9 ÷ 9 = _____
23. 3.3 ÷ 11 = _____
24. 0.81 ÷ 9 = _____

Decimal Division—Repeated Reasoning

Name: _____

Find place value patterns.

Set A

1. $12 \div 0.1 =$ _____
2. $60 \div 0.1 =$ _____
3. $12 \div 0.2 =$ _____
4. $60 \div 0.2 =$ _____
5. $12 \div 0.3 =$ _____
6. $60 \div 0.3 =$ _____
7. $12 \div 0.4 =$ _____
8. $60 \div 0.4 =$ _____
9. $12 \div 0.6 =$ _____
10. $60 \div 0.6 =$ _____

Set B

1. $0.2\overline{)2}$
2. $0.2\overline{)0.2}$
3. $0.2\overline{)0.02}$
4. $0.2\overline{)4}$
5. $0.2\overline{)0.4}$
6. $0.2\overline{)0.04}$
7. $0.2\overline{)6}$
8. $0.2\overline{)0.6}$
9. $0.2\overline{)0.06}$

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

Fraction Addition—Skills Practice

Name: _____

Add fractions or mixed numbers.

Form A

1 $2\frac{3}{10} + \frac{2}{5} =$ _____

2 $\frac{3}{4} + 3\frac{5}{6} =$ _____

3 $\frac{1}{2} + \frac{3}{8} =$ _____

4 $1\frac{1}{2} + 2\frac{2}{3} =$ _____

5 $2\frac{3}{5} + 1\frac{1}{3} =$ _____

6 $\frac{1}{5} + \frac{3}{4} =$ _____

7 $9\frac{2}{3} + \frac{5}{6} =$ _____

8 $\frac{11}{12} + 2\frac{3}{4} =$ _____

9 $2\frac{1}{2} + 1\frac{2}{5} =$ _____

10 $\frac{1}{4} + 1\frac{1}{3} =$ _____

11
$$\begin{array}{r} \frac{3}{4} \\ +\ \frac{9}{10} \\ \hline \end{array}$$

12
$$\begin{array}{r} 3\frac{7}{10} \\ +\ 1\frac{1}{2} \\ \hline \end{array}$$

13
$$\begin{array}{r} 2\frac{1}{4} \\ +\ \frac{3}{8} \\ \hline \end{array}$$

Fraction Addition—Skills Practice

Name: _____

Add fractions or mixed numbers.

Form B

1 $1\frac{1}{3} + \frac{1}{6} =$ _____

2 $\frac{3}{5} + 3\frac{1}{2} =$ _____

3 $\frac{1}{2} + \frac{5}{12} =$ _____

4 $2\frac{9}{10} + 2\frac{1}{4} =$ _____

5 $1\frac{3}{8} + 1\frac{1}{6} =$ _____

6 $\frac{2}{3} + \frac{1}{8} =$ _____

7 $3\frac{7}{10} + \frac{4}{5} =$ _____

8 $\frac{3}{4} + 2\frac{1}{2} =$ _____

9 $4\frac{1}{4} + 3\frac{1}{3} =$ _____

10 $\frac{3}{5} + 1\frac{1}{4} =$ _____

11
$$\begin{array}{r} \frac{4}{5} \\ +\ \frac{1}{3} \\ \hline \end{array}$$

12
$$\begin{array}{r} 5\frac{5}{8} \\ +\ 2\frac{3}{4} \\ \hline \end{array}$$

13
$$\begin{array}{r} 3\frac{1}{2} \\ +\ \frac{3}{10} \\ \hline \end{array}$$

Fraction Addition—Repeated Reasoning

Name: _____

Find regrouping patterns.

Set A

1 $1\frac{3}{4} + \frac{1}{4} =$ _____

2 $1\frac{3}{4} + \frac{1}{2} =$ _____

3 $2\frac{3}{4} + \frac{1}{4} =$ _____

4 $2\frac{3}{4} + \frac{1}{2} =$ _____

5 $3\frac{3}{4} + \frac{1}{4} =$ _____

6 $3\frac{3}{4} + \frac{1}{2} =$ _____

7 $4\frac{3}{4} + \frac{1}{4} =$ _____

8 $4\frac{3}{4} + \frac{1}{2} =$ _____

Set B

1 $2\frac{7}{8} + \frac{1}{8}$ = _____

2 $2\frac{7}{8} + \frac{1}{4}$ = _____

3 $2\frac{7}{8} + \frac{1}{2}$ = _____

4 $3\frac{7}{8} + \frac{1}{8}$ = _____

5 $3\frac{7}{8} + \frac{1}{4}$ = _____

6 $3\frac{7}{8} + \frac{1}{2}$ = _____

7 $4\frac{7}{8} + \frac{1}{8}$ = _____

8 $4\frac{7}{8} + \frac{1}{4}$ = _____

9 $4\frac{7}{8} + \frac{1}{2}$ = _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

Fraction Subtraction—Skills Practice

Name: _____

Subtract fractions or mixed numbers. **Form A**

1 $3\frac{3}{4} - \frac{3}{8} =$ _____

2 $\frac{4}{5} - \frac{2}{3} =$ _____

3 $4\frac{1}{10} - 1 =$ _____

4 $4\frac{1}{4} - 2\frac{5}{12} =$ _____

5 $2\frac{1}{2} - \frac{3}{5} =$ _____

6 $5\frac{1}{3} - 1\frac{1}{6} =$ _____

7 $3 - \frac{3}{8} =$ _____

8 $\frac{5}{6} - \frac{5}{8} =$ _____

9 $5\frac{3}{10} - 4\frac{1}{2} =$ _____

10 $3\frac{3}{5} - 1\frac{3}{4} =$ _____

11
$$\begin{array}{r} 5 \\ -\ 2\frac{1}{6} \\ \hline \end{array}$$

12
$$\begin{array}{r} 1\frac{1}{3} \\ -\ \frac{3}{12} \\ \hline \end{array}$$

13
$$\begin{array}{r} 3\frac{7}{8} \\ -\ 2\frac{2}{3} \\ \hline \end{array}$$

Fraction Subtraction—Skills Practice

Name: _____

Subtract fractions or mixed numbers. **Form B**

1 $4\frac{11}{12} - \frac{5}{6} =$ _____

2 $\frac{5}{6} - \frac{3}{4} =$ _____

3 $5\frac{1}{8} - 4 =$ _____

4 $5\frac{1}{5} - 2\frac{7}{10} =$ _____

5 $3\frac{2}{3} - \frac{1}{2} =$ _____

6 $2\frac{5}{12} - 2\frac{1}{4} =$ _____

7 $2 - \frac{3}{5} =$ _____

8 $\frac{3}{4} - \frac{2}{3} =$ _____

9 $4 - 2\frac{5}{12} =$ _____

10 $4\frac{1}{6} - 2\frac{5}{8} =$ _____

11
$$\begin{array}{r} 4 \\ -\ 2\frac{5}{12} \\ \hline \end{array}$$

12
$$\begin{array}{r} 2\frac{3}{4} \\ -\ \frac{1}{12} \\ \hline \end{array}$$

13
$$\begin{array}{r} 8\frac{3}{10} \\ -\ 3\frac{1}{4} \\ \hline \end{array}$$

Fraction Subtraction—Repeated Reasoning

Name: _____

Find regrouping patterns.

Set A

1 $1\frac{3}{4} - \frac{1}{2} =$ _____

2 $1\frac{1}{2} - \frac{3}{4} =$ _____

3 $2\frac{3}{4} - \frac{1}{2} =$ _____

4 $2\frac{1}{2} - \frac{3}{4} =$ _____

5 $3\frac{3}{4} - \frac{1}{2} =$ _____

6 $3\frac{1}{2} - \frac{3}{4} =$ _____

7 $4\frac{3}{4} - \frac{1}{2} =$ _____

8 $4\frac{1}{2} - \frac{3}{4} =$ _____

Set B

1 $6\frac{1}{4} - \frac{1}{4}$ = _____

2 $6\frac{1}{4} - \frac{1}{2}$ = _____

3 $6\frac{1}{4} - \frac{3}{4}$ = _____

4 $7\frac{1}{4} - \frac{1}{4}$ = _____

5 $7\frac{1}{4} - \frac{1}{2}$ = _____

6 $7\frac{1}{4} - \frac{3}{4}$ = _____

7 $8\frac{1}{4} - \frac{1}{4}$ = _____

8 $8\frac{1}{4} - \frac{1}{2}$ = _____

9 $8\frac{1}{4} - \frac{3}{4}$ = _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

Fraction Multiplication—Skills Practice

Name: _____

Multiply fractions and whole numbers. **Form A**

1 $2 \times \frac{3}{8} =$ _____

2 $4 \times \frac{2}{3} =$ _____

3 $\frac{1}{2} \times 5 =$ _____

4 $\frac{2}{5} \times 6 =$ _____

5 $7 \times \frac{3}{10} =$ _____

6 $3 \times \frac{1}{5} =$ _____

7 $3 \times \frac{5}{8} =$ _____

8 $\frac{3}{4} \times 2 =$ _____

9 $\frac{2}{3} \times 2 =$ _____

10 $6 \times \frac{3}{5} =$ _____

11 $\frac{1}{6} \times 3 =$ _____

12 $4 \times \frac{4}{5} =$ _____

13 $\frac{7}{8} \times 5 =$ _____

14 $9 \times \frac{1}{3} =$ _____

15 $\frac{1}{20} \times 10 =$ _____

16 $8 \times \frac{1}{8} =$ _____

17 $\frac{5}{12} \times 4 =$ _____

18 $12 \times \frac{3}{4} =$ _____

Fraction Multiplication—Skills Practice

Name: _____

Multiply fractions and whole numbers. **Form B**

1 $\frac{3}{8} \times 3 =$ _____

2 $\frac{2}{3} \times 6 =$ _____

3 $9 \times \frac{1}{2} =$ _____

4 $\frac{2}{5} \times 5 =$ _____

5 $\frac{3}{10} \times 3 =$ _____

6 $2 \times \frac{1}{5} =$ _____

7 $2 \times \frac{5}{8} =$ _____

8 $\frac{3}{4} \times 3 =$ _____

9 $4 \times \frac{2}{3} =$ _____

10 $\frac{3}{5} \times 8 =$ _____

11 $4 \times \frac{1}{6} =$ _____

12 $\frac{4}{5} \times 5 =$ _____

13 $\frac{7}{8} \times 2 =$ _____

14 $6 \times \frac{1}{3} =$ _____

15 $\frac{1}{20} \times 5 =$ _____

16 $6 \times \frac{1}{6} =$ _____

17 $\frac{5}{12} \times 3 =$ _____

18 $8 \times \frac{3}{4} =$ _____

Fraction Multiplication—Skills Practice

Name: _____

Multiply fractions by fractions. **Form A**

1 $\frac{3}{4} \times \frac{1}{4} =$ _____

2 $\frac{1}{5} \times \frac{1}{2} =$ _____

3 $\frac{2}{3} \times \frac{2}{5} =$ _____

4 $\frac{5}{12} \times \frac{1}{2} =$ _____

5 $\frac{3}{4} \times \frac{3}{8} =$ _____

6 $\frac{4}{5} \times \frac{5}{6} =$ _____

7 $\frac{7}{10} \times \frac{7}{10} =$ _____

8 $\frac{2}{3} \times \frac{2}{3} =$ _____

9 $\frac{9}{10} \times \frac{1}{2} =$ _____

10 $\frac{1}{3} \times \frac{1}{6} =$ _____

11 $\frac{5}{8} \times \frac{8}{5} =$ _____

12 $\frac{3}{10} \times \frac{3}{5} =$ _____

13 $\frac{3}{8} \times \frac{5}{8} =$ _____

14 $\frac{2}{5} \times \frac{4}{3} =$ _____

15 $\frac{1}{4} \times \frac{4}{1} =$ _____

16 $\frac{9}{10} \times \frac{3}{4} =$ _____

17 $\frac{1}{3} \times \frac{7}{10} =$ _____

18 $\frac{7}{8} \times \frac{2}{3} =$ _____

Fraction Multiplication—Skills Practice

Name: _____

Multiply fractions by fractions. **Form B**

1. $\frac{2}{5} \times \frac{1}{5} =$ _____
2. $\frac{1}{4} \times \frac{1}{2} =$ _____
3. $\frac{3}{5} \times \frac{3}{8} =$ _____
4. $\frac{5}{8} \times \frac{1}{2} =$ _____
5. $\frac{2}{3} \times \frac{2}{8} =$ _____
6. $\frac{3}{4} \times \frac{4}{5} =$ _____
7. $\frac{3}{10} \times \frac{3}{10} =$ _____
8. $\frac{5}{8} \times \frac{5}{8} =$ _____
9. $\frac{9}{12} \times \frac{1}{2} =$ _____
10. $\frac{1}{4} \times \frac{1}{2} =$ _____
11. $\frac{4}{5} \times \frac{5}{4} =$ _____
12. $\frac{2}{5} \times \frac{2}{3} =$ _____
13. $\frac{3}{10} \times \frac{7}{10} =$ _____
14. $\frac{5}{6} \times \frac{10}{8} =$ _____
15. $\frac{1}{6} \times \frac{6}{1} =$ _____
16. $\frac{7}{8} \times \frac{5}{6} =$ _____
17. $\frac{1}{12} \times \frac{2}{3} =$ _____
18. $\frac{3}{4} \times \frac{5}{8} =$ _____

Fraction Multiplication—Repeated Reasoning

Name: _____

Multiply by a unit fraction to find patterns.

Set A

1. $12 \div 2 =$ _____
2. $12 \times \frac{1}{2} = \frac{\square}{\square} =$ _____
3. $12 \div 3 =$ _____
4. $12 \times \frac{1}{3} = \frac{\square}{\square} =$ _____
5. $12 \div 4 =$ _____
6. $12 \times \frac{1}{4} = \frac{\square}{\square} =$ _____
7. $12 \div 6 =$ _____
8. $12 \times \frac{1}{6} = \frac{\square}{\square} =$ _____
9. $12 \div 12 =$ _____
10. $12 \times \frac{1}{12} = \frac{\square}{\square} =$ _____

Set B

1. $6 \div 6 =$ _____
2. $6 \times \frac{1}{6} = \frac{\square}{\square} =$ _____
3. $60 \div 60 =$ _____
4. $60 \times \frac{1}{60} = \frac{\square}{\square} =$ _____
5. $600 \div 600 =$ _____
6. $600 \times \frac{1}{600} = \frac{\square}{\square} =$ _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

Fraction Division—Skills Practice

Name: _____

Divide a fraction by a whole number and divide a whole number by a fraction. **Form A**

1 $2 \div \frac{1}{3} =$ _____

2 $3 \div \frac{1}{2} =$ _____

3 $5 \div \frac{1}{5} =$ _____

4 $\frac{1}{3} \div 3 =$ _____

5 $\frac{1}{4} \div 5 =$ _____

6 $\frac{1}{5} \div 4 =$ _____

7 $3 \div \frac{1}{4} =$ _____

8 $4 \div \frac{1}{3} =$ _____

9 $6 \div \frac{1}{5} =$ _____

10 $\frac{1}{5} \div 2 =$ _____

11 $\frac{1}{3} \div 6 =$ _____

12 $\frac{1}{6} \div 3 =$ _____

13 $2 \div \frac{1}{6} =$ _____

14 $5 \div \frac{1}{4} =$ _____

15 $4 \div \frac{1}{5} =$ _____

16 $\frac{1}{5} \div 2 =$ _____

17 $\frac{1}{2} \div 5 =$ _____

18 $\frac{1}{3} \div 2 =$ _____

Fraction Division—Skills Practice

Name: _____

Divide a fraction by a whole number and divide a whole number by a fraction. **Form B**

1 $5 \div \frac{1}{3} =$ _____

2 $3 \div \frac{1}{5} =$ _____

3 $2 \div \frac{1}{2} =$ _____

4 $\frac{1}{2} \div 2 =$ _____

5 $\frac{1}{4} \div 2 =$ _____

6 $\frac{1}{2} \div 4 =$ _____

7 $2 \div \frac{1}{5} =$ _____

8 $5 \div \frac{1}{2} =$ _____

9 $4 \div \frac{1}{6} =$ _____

10 $\frac{1}{5} \div 5 =$ _____

11 $\frac{1}{6} \div 4 =$ _____

12 $\frac{1}{4} \div 6 =$ _____

13 $6 \div \frac{1}{3} =$ _____

14 $10 \div \frac{1}{2} =$ _____

15 $2 \div \frac{1}{10} =$ _____

16 $\frac{1}{2} \div 6 =$ _____

17 $\frac{1}{6} \div 2 =$ _____

18 $\frac{1}{8} \div 5 =$ _____

Fraction Division—Repeated Reasoning

Name: _____

Divide by a unit fraction to find patterns.

Set A

1. $6 \times 2 =$ _____
2. $6 \div \frac{1}{2} =$ _____
3. $6 \times 3 =$ _____
4. $6 \div \frac{1}{3} =$ _____
5. $6 \times$ _____ $= 24$
6. $6 \div \frac{\square}{\square} = 24$
7. $6 \times$ _____ $= 30$
8. $6 \div \frac{\square}{\square} = 30$
9. $6 \times$ _____ $= 36$
10. $6 \div \frac{\square}{\square} = 36$

Set B

1. $7 \times 10 =$ _____
2. $7 \div \frac{1}{10} =$ _____
3. $8 \times 10 =$ _____
4. $8 \div \frac{1}{10} =$ _____
5. $9 \times 10 =$ _____
6. $9 \div \frac{1}{10} =$ _____
7. $10 \times 10 =$ _____
8. $10 \div \frac{1}{10} =$ _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____