

Fluency Table of Contents

	Page		Page
Compute with Percents		Repeated Reasoning	
Skills Practice (Forms A and B)		Find patterns in multiplying	
Find the percent.	352	decimals.	373
Use the part and the		Divide Decimals	
percent to find the whole.	354	Skills Practice (Forms A and B)	
Repeated Reasoning		Divide.	374
Find patterns in percents.	356	Repeated Reasoning	
Find place value patterns.	357	Compare dividends and quotients to	
Find patterns using the		find patterns.	376
distributive property.	358	Greatest Common Factors and	
Divide Fractions		Least Common Multiples	
Skills Practice (Forms A and B)		Skills Practice (Forms A and B)	
Find the quotient.	359	Find the greatest common factor.	377
Repeated Reasoning		Find the least common multiple.	379
Find patterns in fraction division.	361	Exponents	
Divide Whole Numbers		Skills Practice (Forms A and B)	
Skills Practice (Forms A and B)		Evaluate the expression.	381
Find the quotient.	362	Repeated Reasoning	
Repeated Reasoning		Look for patterns in expressions	
Find place value patterns.	364	with exponents.	383
Add Decimals		Order of Operations	
Skills Practice (Forms A and B)		Skills Practice (Forms A and B)	
Add.	365	Evaluate the expression.	384
Repeated Reasoning		Evaluate Expressions with Variables	
Use patterns and mental math		Skills Practice (Forms A and B)	
to add.	367	Evaluate the expression.	386
Subtract Decimals		Equivalent Expressions	
Skills Practice (Forms A and B)		Skills Practice (Forms A and B)	
Subtract.	368	Use the distributive property to write an	
Repeated Reasoning		equivalent expression.	388
Use patterns and mental math		Solving Equations	
to subtract.	370	Skills Practice (Forms A and B)	
Multiply Decimals		Solve the equation.	390
Skills Practice (Forms A and B)			
Multiply.	371		



Compute with Percents—Skills Practice

Name: _____

Find the percent.

Form A

1 30% of 250 = _____

2 90% of 130 = _____

3 15% of 80 = _____

4 10% of 70 = _____

5 110% of 630 = _____

6 125% of 84 = _____

7 20% of 75 = _____

8 15% of 40 = _____

9 25% of 60 = _____

10 70% of 120 = _____

11 80% of 80 = _____

12 50% of 82 = _____

13 29% of 300 = _____

14 11% of 100 = _____

15 75% of 32 = _____

16 50% of 196 = _____

17 100% of 90 = _____

18 10% of 720 = _____

19 80% of 25 = _____

20 60% of 70 = _____

21 8% of 200 = _____

22 150% of 80 = _____

23 35% of 40 = _____

24 40% of 120 = _____

Compute with Percents—Skills Practice

Name: _____

Find the percent.

Form B

1 20% of 15 = _____

2 140% of 55 = _____

3 60% of 105 = _____

4 90% of 170 = _____

5 50% of 96 = _____

6 25% of 116 = _____

7 75% of 24 = _____

8 100% of 80 = _____

9 10% of 390 = _____

10 25% of 480 = _____

11 19% of 400 = _____

12 40% of 35 = _____

13 30% of 520 = _____

14 70% of 40 = _____

15 80% of 140 = _____

16 50% of 122 = _____

17 11% of 600 = _____

18 90% of 260 = _____

19 48% of 200 = _____

20 75% of 148 = _____

21 60% of 5 = _____

22 110% of 80 = _____

23 40% of 120 = _____

24 25% of 40 = _____



Compute with Percents—Skills Practice

Name: _____

Use the part and the percent to find the whole.

Form A

1 $6 = 10\%$ of _____

2 $62 = 50\%$ of _____

3 $15 = 25\%$ of _____

4 $12 = 48\%$ of _____

5 $3 = 30\%$ of _____

6 $8 = 40\%$ of _____

7 $49 = 70\%$ of _____

8 $52 = 26\%$ of _____

9 $50 = 20\%$ of _____

10 $9 = 75\%$ of _____

11 $32 = 80\%$ of _____

12 $11 = 100\%$ of _____

13 $150 = 50\%$ of _____

14 $81 = 90\%$ of _____

15 $186 = 62\%$ of _____

16 $12 = 20\%$ of _____

17 $24 = 75\%$ of _____

18 $40 = 40\%$ of _____

19 $35 = 70\%$ of _____

20 $27 = 10\%$ of _____

21 $98 = 49\%$ of _____

22 $80 = 40\%$ of _____

23 $15 = 15\%$ of _____

24 $30 = 75\%$ of _____

Compute with Percents—Skills Practice

Name: _____

Use the part and the percent to find the whole.

Form B

1 $18 = 90\%$ of _____

2 $70 = 70\%$ of _____

3 $54 = 50\%$ of _____

4 $14 = 20\%$ of _____

5 $66 = 11\%$ of _____

6 $64 = 80\%$ of _____

7 $16 = 25\%$ of _____

8 $16 = 10\%$ of _____

9 $49 = 100\%$ of _____

10 $10 = 40\%$ of _____

11 $60 = 75\%$ of _____

12 $198 = 99\%$ of _____

13 $70 = 70\%$ of _____

14 $15 = 60\%$ of _____

15 $2 = 20\%$ of _____

16 $38 = 19\%$ of _____

17 $11 = 25\%$ of _____

18 $8 = 50\%$ of _____

19 $6 = 30\%$ of _____

20 $60 = 15\%$ of _____

21 $24 = 10\%$ of _____

22 $40 = 25\%$ of _____

23 $30 = 10\%$ of _____

24 $15 = 20\%$ of _____



Compute with Percents— Repeated Reasoning

Name: _____

Find patterns in percents.

Set A

1 60% of 20 = _____ 2 60% of 30 = _____ 3 60% of 40 = _____

4 50% of 20 = _____ 5 50% of 30 = _____ 6 50% of 40 = _____

7 40% of 20 = _____ 8 40% of 30 = _____ 9 40% of 40 = _____

10 30% of 20 = _____ 11 30% of 30 = _____ 12 30% of 40 = _____

Set B

1 8% of 25 = _____ 2 16% of 25 = _____ 3 24% of 25 = _____

4 8% of 50 = _____ 5 16% of 50 = _____ 6 24% of 50 = _____

7 8% of 75 = _____ 8 16% of 75 = _____ 9 24% of 75 = _____

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

Compute with Percents— Repeated Reasoning

Name: _____

Find place value patterns.

Set A

1 25% of 4 = _____

2 25% of 40 = _____

3 25% of 400 = _____

4 50% of 4 = _____

5 50% of 40 = _____

6 50% of 400 = _____

7 75% of 4 = _____

8 75% of 40 = _____

9 75% of 400 = _____

Set B

1 100% of 300 = _____

2 10% of 300 = _____

3 1% of 300 = _____

4 200% of 300 = _____

5 20% of 300 = _____

6 2% of 300 = _____

7 400% of 300 = _____

8 40% of 300 = _____

9 4% of 300 = _____

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



Compute with Percents— Repeated Reasoning

Name: _____

Find patterns using the distributive property.

Set A

1 30% of 10 = _____ 2 20% of 10 = _____ 3 50% of 10 = _____

4 30% of 20 = _____ 5 20% of 20 = _____ 6 50% of 20 = _____

7 30% of 30 = _____ 8 20% of 30 = _____ 9 50% of 30 = _____

Set B

1 2% of 50 = _____ 2 4% of 50 = _____ 3 6% of 50 = _____

4 20% of 50 = _____ 5 40% of 50 = _____ 6 60% of 50 = _____

7 200% of 50 = _____ 8 400% of 50 = _____ 9 600% of 50 = _____

10 220% of 50 = _____ 11 440% of 50 = _____ 12 660% of 50 = _____

13 222% of 50 = _____ 14 444% of 50 = _____ 15 666% of 50 = _____

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

Divide Fractions—Skills Practice

Name: _____

Find the quotient.

Form A

1 $\frac{2}{3} \div \frac{3}{6} =$ _____

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

3 $\frac{2}{2} \div \frac{5}{6} =$ _____

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

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

6 $\frac{7}{4} \div \frac{3}{2} =$ _____

7 $\frac{8}{5} \div \frac{4}{10} =$ _____

8 $\frac{2}{3} \div \frac{5}{6} =$ _____

9 $\frac{5}{8} \div \frac{3}{4} =$ _____

10 $\frac{5}{4} \div \frac{10}{12} =$ _____

11 $\frac{4}{6} \div \frac{3}{6} =$ _____

12 $\frac{5}{4} \div \frac{1}{8} =$ _____

13 $\frac{1}{8} \div \frac{5}{4} =$ _____

14 $\frac{3}{2} \div \frac{6}{5} =$ _____

15 $\frac{9}{4} \div \frac{3}{2} =$ _____

16 $\frac{3}{10} \div \frac{6}{5} =$ _____

17 $\frac{6}{4} \div \frac{2}{8} =$ _____

18 $\frac{4}{8} \div \frac{5}{5} =$ _____



Divide Fractions—Skills Practice

Name: _____

Find the quotient.

Form B

1 $\frac{7}{4} \div \frac{1}{2} =$ _____

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

3 $\frac{5}{6} \div \frac{4}{12} =$ _____

4 $\frac{8}{10} \div \frac{2}{5} =$ _____

5 $\frac{7}{8} \div \frac{6}{8} =$ _____

6 $\frac{5}{6} \div \frac{2}{3} =$ _____

7 $\frac{1}{10} \div \frac{1}{5} =$ _____

8 $\frac{3}{5} \div \frac{2}{3} =$ _____

9 $\frac{5}{3} \div \frac{4}{4} =$ _____

10 $\frac{4}{3} \div \frac{8}{6} =$ _____

11 $\frac{6}{12} \div \frac{1}{3} =$ _____

12 $\frac{3}{8} \div \frac{9}{4} =$ _____

13 $\frac{3}{10} \div \frac{2}{5} =$ _____

14 $\frac{6}{6} \div \frac{4}{3} =$ _____

15 $\frac{10}{4} \div \frac{5}{6} =$ _____

16 $\frac{2}{6} \div \frac{2}{5} =$ _____

17 $\frac{6}{5} \div \frac{3}{10} =$ _____

18 $\frac{1}{5} \div \frac{1}{3} =$ _____

Divide Fractions—Repeated Reasoning

Name: _____

Find patterns in fraction division.

Set A

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

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

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

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

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

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

7 $\frac{1}{2} \div \frac{1}{16} =$ _____

8 $\frac{3}{2} \div \frac{1}{16} =$ _____

Set B

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

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

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

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

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

6 $\frac{3}{2} \div \frac{3}{4} =$ _____

7 $\frac{1}{2} \div \frac{4}{4} =$ _____

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

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



Divide Whole Numbers—Skills Practice

Name: _____

Find the quotient.

Form A

1 $61 \overline{)793}$

2 $25 \overline{)675}$

3 $46 \overline{)506}$

4 $30 \overline{)510}$

5 $41 \overline{)328}$

6 $80 \overline{)5,680}$

7 $35 \overline{)2,170}$

8 $22 \overline{)7,040}$

9 $72 \overline{)7,488}$

10 $63 \overline{)53,865}$

11 $75 \overline{)72,525}$

12 $40 \overline{)9,240}$

13 $44 \overline{)54,164}$

14 $15 \overline{)15,810}$

15 $12 \overline{)17,472}$

Divide Whole Numbers—Skills Practice

Name: _____

Find the quotient.

Form B

1 $45 \overline{)4,410}$

2 $25 \overline{)475}$

3 $21 \overline{)189}$

4 $81 \overline{)972}$

5 $20 \overline{)960}$

6 $54 \overline{)702}$

7 $60 \overline{)8,520}$

8 $33 \overline{)8,580}$

9 $70 \overline{)3,570}$

10 $64 \overline{)47,616}$

11 $14 \overline{)14,168}$

12 $15 \overline{)18,945}$

13 $66 \overline{)89,958}$

14 $75 \overline{)62,025}$

15 $76 \overline{)8,208}$



Divide Whole Numbers— Repeated Reasoning

Name: _____

Find place value patterns.

Set A

1 $10 \overline{)16,000}$

2 $100 \overline{)16,000}$

3 $1,000 \overline{)16,000}$

4 $5 \overline{)16,000}$

5 $50 \overline{)16,000}$

6 $500 \overline{)16,000}$

Set B

1 $120 \div 10 = \underline{\hspace{2cm}}$

2 $1,200 \div 10 = \underline{\hspace{2cm}}$

3 $12,000 \div 10 = \underline{\hspace{2cm}}$

4 $120 \div 20 = \underline{\hspace{2cm}}$

5 $1,200 \div 20 = \underline{\hspace{2cm}}$

6 $12,000 \div 20 = \underline{\hspace{2cm}}$

7 $120 \div 30 = \underline{\hspace{2cm}}$

8 $1,200 \div 30 = \underline{\hspace{2cm}}$

9 $12,000 \div 30 = \underline{\hspace{2cm}}$

10 $120 \div 40 = \underline{\hspace{2cm}}$

11 $1,200 \div 40 = \underline{\hspace{2cm}}$

12 $12,000 \div 40 = \underline{\hspace{2cm}}$

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

Add Decimals—Skills Practice

Name: _____

Add.

Form A

1 $22.098 + 14.103 =$ _____

2 $6.07 + 12.149 =$ _____

3 $3.1 + 4.904 =$ _____

4 $8.062 + 7.189 =$ _____

5 $11.802 + 32.4 =$ _____

6 $13.765 + 6.23 =$ _____

7 $76.147 + 5.07 =$ _____

8 $63.98 + 0.031 =$ _____

9 $0.093 + 0.02 =$ _____

10 $5.2 + 0.871 =$ _____

11 $41.82 + 7.593 =$ _____

12 $2.76 + 27.959 =$ _____

13 $8.91 + 0.092 =$ _____

14 $33.99 + 24.002 =$ _____

15 $1.099 + 0.038 =$ _____

16 $2.08 + 0.671 =$ _____

17 $9.7 + 0.345 =$ _____

18 $1.999 + 52.651 =$ _____

19 $17.76 + 8 + 45.309 =$ _____

20 $68.821 + 15.34 + 1.009 =$ _____



Add Decimals—Skills Practice

Name: _____

Add.

Form B

1 $23.189 + 15.014 =$ _____

2 $7.08 + 11.238 =$ _____

3 $2.7 + 3.603 =$ _____

4 $9.073 + 4.479 =$ _____

5 $13.732 + 36.5 =$ _____

6 $12.803 + 5.18 =$ _____

7 $67.258 + 9.05 =$ _____

8 $54.87 + 0.082 =$ _____

9 $0.058 + 0.08 =$ _____

10 $4.4 + 0.936 =$ _____

11 $52.64 + 4.865 =$ _____

12 $3.58 + 28.846 =$ _____

13 $7.92 + 0.084 =$ _____

14 $44.88 + 35.113 =$ _____

15 $1.077 + 0.034 =$ _____

16 $3.06 + 0.863 =$ _____

17 $9.4 + 0.762 =$ _____

18 $3.998 + 65.462 =$ _____

19 $14.45 + 7 + 48.602 =$ _____

20 $67.462 + 16.82 + 2.008 =$ _____

Add Decimals—Repeated Reasoning

Name: _____

Use patterns and mental math to add.

Set A

1 $1.999 + 0.001 =$ _____ **2** $1.999 + 0.002 =$ _____ **3** $1.999 + 0.003 =$ _____

4 $1.998 + 0.002 =$ _____ **5** $1.998 + 0.003 =$ _____ **6** $1.998 + 0.004 =$ _____

7 $1.997 + 0.003 =$ _____ **8** $1.997 + 0.004 =$ _____ **9** $1.997 + 0.005 =$ _____

Set B

1 $2.007 + 0.003 =$ _____ **2** $2.008 + 0.003 =$ _____ **3** $2.009 + 0.003 =$ _____

4 $2.008 + 0.002 =$ _____ **5** $2.009 + 0.002 =$ _____ **6** $2.010 + 0.002 =$ _____

7 $2.009 + 0.001 =$ _____ **8** $2.010 + 0.001 =$ _____ **9** $2.011 + 0.001 =$ _____

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



Subtract Decimals—Skills Practice

Name: _____

Subtract.

Form A

1 $0.09 - 0.072 =$ _____

2 $82.456 - 50.03 =$ _____

3 $53.5 - 0.094 =$ _____

4 $12.091 - 0.132 =$ _____

5 $0.8 - 0.341 =$ _____

6 $54.784 - 23.8 =$ _____

7 $25.76 - 4.213 =$ _____

8 $27.261 - 18 =$ _____

9 $10.002 - 0.004 =$ _____

10 $6.365 - 0.245 =$ _____

11 $4.598 - 2.46 =$ _____

12 $36.7 - 0.062 =$ _____

13 $68 - 6.218 =$ _____

14 $18.25 - 6.342 =$ _____

15 $1.087 - 0.3 =$ _____

16 $0.076 - 0.02 =$ _____

17 $48.1 - 9.354 =$ _____

18 $56.285 - 7.293 =$ _____

19 $2.89 - 0.089 =$ _____

20 $82.138 - 6.4 =$ _____

21 $21.98 - 13.761 =$ _____

Subtract Decimals—Skills Practice

Name: _____

Subtract.

Form B

1 $0.08 - 0.067 =$ _____ **2** $94.281 - 40.05 =$ _____ **3** $42.5 - 0.083 =$ _____

4 $14.082 - 0.243 =$ _____ **5** $0.9 - 0.426 =$ _____ **6** $76.892 - 34.9 =$ _____

7 $35.87 - 3.435 =$ _____ **8** $28.831 - 19 =$ _____ **9** $10.006 - 0.009 =$ _____

10 $8.496 - 0.356 =$ _____ **11** $7.792 - 3.66 =$ _____ **12** $32.8 - 0.074 =$ _____

13 $63 - 2.453 =$ _____ **14** $14.36 - 2.538 =$ _____ **15** $1.092 - 0.4 =$ _____

16 $0.084 - 0.06 =$ _____ **17** $52.1 - 4.463 =$ _____ **18** $52.156 - 5.163 =$ _____

19 $3.78 - 0.078 =$ _____ **20** $96.286 - 7.8 =$ _____ **21** $23.94 - 15.358 =$ _____



Subtract Decimals—Repeated Reasoning

Name: _____

Use patterns and mental math to subtract.

Set A

1 $8 - 0.1 =$ _____

2 $8 - 0.2 =$ _____

3 $8 - 0.3 =$ _____

4 $18 - 0.1 =$ _____

5 $18 - 0.2 =$ _____

6 $18 - 0.3 =$ _____

7 $108 - 0.1 =$ _____

8 $108 - 0.2 =$ _____

9 $108 - 0.3 =$ _____

Set B

1 $20 - 0.01 =$ _____

2 $20 - 0.02 =$ _____

3 $20 - 0.03 =$ _____

4 $20 - 1.01 =$ _____

5 $20 - 1.02 =$ _____

6 $20 - 1.03 =$ _____

7 $20 - 2.01 =$ _____

8 $20 - 2.02 =$ _____

9 $20 - 2.03 =$ _____

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

Multiply Decimals—Skills Practice

Name: _____

Multiply.

Form A

$$\begin{array}{r} \text{1} \quad 2.1 \\ \times 0.76 \\ \hline \end{array}$$

$$\begin{array}{r} \text{2} \quad 52.4 \\ \times 4.5 \\ \hline \end{array}$$

$$\begin{array}{r} \text{3} \quad 4.52 \\ \times 8.9 \\ \hline \end{array}$$

$$\begin{array}{r} \text{4} \quad 5.8 \\ \times 7.4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{5} \quad 0.97 \\ \times 0.23 \\ \hline \end{array}$$

$$\begin{array}{r} \text{6} \quad 63.52 \\ \times 4.7 \\ \hline \end{array}$$

$$\begin{array}{r} \text{7} \quad 2.7 \\ \times 0.25 \\ \hline \end{array}$$

$$\begin{array}{r} \text{8} \quad 8.35 \\ \times 0.46 \\ \hline \end{array}$$

$$\begin{array}{r} \text{9} \quad 0.813 \\ \times 4.6 \\ \hline \end{array}$$

$$\begin{array}{r} \text{10} \quad 0.83 \\ \times 5.8 \\ \hline \end{array}$$

$$\begin{array}{r} \text{11} \quad 12.3 \\ \times 6.5 \\ \hline \end{array}$$

$$\begin{array}{r} \text{12} \quad 0.78 \\ \times 42.5 \\ \hline \end{array}$$

$$\begin{array}{r} \text{13} \quad 912.5 \\ \times 0.85 \\ \hline \end{array}$$

$$\begin{array}{r} \text{14} \quad 3.6 \\ \times 8.14 \\ \hline \end{array}$$

$$\begin{array}{r} \text{15} \quad 0.64 \\ \times 31.8 \\ \hline \end{array}$$

$$\begin{array}{r} \text{16} \quad 5.6 \\ \times 21.42 \\ \hline \end{array}$$



Multiply Decimals—Skills Practice

Name: _____

Multiply.

Form B

$$\begin{array}{r} 1 \quad 4.1 \\ \times 0.87 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 65.5 \\ \times 3.2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 0.65 \\ \times 3.9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 0.924 \\ \times 6.2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 34.78 \\ \times 0.12 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 7.65 \\ \times 0.28 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 0.69 \\ \times 0.34 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 36.25 \\ \times 7.3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 0.65 \\ \times 24.6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 73.8 \\ \times 42.9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 21.4 \\ \times 5.6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 6.28 \\ \times 3.65 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 2.5 \\ \times 7.39 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 691.5 \\ \times 0.75 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 0.43 \\ \times 61.5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 7.8 \\ \times 34.16 \\ \hline \end{array}$$

Find patterns in multiplying decimals.

Set A

1 $0.1 \times 0.3 =$ _____

2 $0.1 \times 0.6 =$ _____

3 $0.2 \times 0.3 =$ _____

4 $0.2 \times 0.6 =$ _____

5 $0.4 \times 0.3 =$ _____

6 $0.4 \times 0.6 =$ _____

7 $0.8 \times 0.3 =$ _____

8 $0.8 \times 0.6 =$ _____

9 $1.6 \times 0.3 =$ _____

10 $1.6 \times 0.6 =$ _____

11 $3.2 \times 0.3 =$ _____

12 $3.2 \times 0.6 =$ _____

Set B

1
$$\begin{array}{r} 34.5 \\ \times 5 \\ \hline \end{array}$$

2
$$\begin{array}{r} 34.5 \\ \times 0.5 \\ \hline \end{array}$$

3
$$\begin{array}{r} 34.5 \\ \times 0.05 \\ \hline \end{array}$$

4
$$\begin{array}{r} 34.5 \\ \times 0.005 \\ \hline \end{array}$$

5
$$\begin{array}{r} 3.45 \\ \times 5 \\ \hline \end{array}$$

6
$$\begin{array}{r} 3.45 \\ \times 0.5 \\ \hline \end{array}$$

7
$$\begin{array}{r} 3.45 \\ \times 0.05 \\ \hline \end{array}$$

8
$$\begin{array}{r} 3.45 \\ \times 0.005 \\ \hline \end{array}$$

9
$$\begin{array}{r} 0.345 \\ \times 5 \\ \hline \end{array}$$

10
$$\begin{array}{r} 0.345 \\ \times 0.5 \\ \hline \end{array}$$

11
$$\begin{array}{r} 0.345 \\ \times 0.05 \\ \hline \end{array}$$

12
$$\begin{array}{r} 0.345 \\ \times 0.005 \\ \hline \end{array}$$

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



Divide Decimals—Skills Practice

Name: _____

Divide.

Form A

1 $0.08 \overline{)3.84}$

2 $0.16 \overline{)6.08}$

3 $5.9 \overline{)2.183}$

4 $112.5 \overline{)7.2}$

5 $614.5 \overline{)3.687}$

6 $2.68 \overline{)9.648}$

7 $5.9 \overline{)10.62}$

8 $2.6 \overline{)137.8}$

9 $1.486 \overline{)66.87}$

10 $2.357 \overline{)68.353}$

11 $2.85 \overline{)267.9}$

12 $0.368 \overline{)33.856}$

13 $1.125 \overline{)240.3}$

14 $0.3 \overline{)8.37}$

15 $0.008 \overline{)2.3}$

16 $0.36 \overline{)0.621}$

Divide Decimals—Skills Practice

Name: _____

Divide.

Form B

1 $0.04 \overline{)2.24}$

2 $0.18 \overline{)7.56}$

3 $0.9 \overline{)3.69}$

4 $5.6 \overline{)5.152}$

5 $114.5 \overline{)3.206}$

6 $2.8 \overline{)16.52}$

7 $2.56 \overline{)8.192}$

8 $217.5 \overline{)18.27}$

9 $812.5 \overline{)6.5}$

10 $1.276 \overline{)82.94}$

11 $6.95 \overline{)375.3}$

12 $3.689 \overline{)99.603}$

13 $3.225 \overline{)566.31}$

14 $56.25 \overline{)7.2}$

15 $0.734 \overline{)60.922}$

16 $0.8 \overline{)0.856}$



Divide Decimals—Repeated Reasoning

Name: _____

Compare dividends and quotients to find patterns.

Set A

1 $0.5 \overline{)2}$

2 $0.5 \overline{)4}$

3 $0.5 \overline{)8}$

4 $0.5 \overline{)20}$

5 $0.5 \overline{)40}$

6 $0.5 \overline{)80}$

7 $0.5 \overline{)200}$

8 $0.5 \overline{)400}$

9 $0.5 \overline{)800}$

Set B

1 $1 \div 0.2 =$ _____

2 $2 \div 0.2 =$ _____

3 $3 \div 0.2 =$ _____

4 $10 \div 0.2 =$ _____

5 $20 \div 0.2 =$ _____

6 $30 \div 0.2 =$ _____

7 $100 \div 0.2 =$ _____

8 $200 \div 0.2 =$ _____

9 $300 \div 0.2 =$ _____

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

Greatest Common Factors—Skills Practice

Name: _____

Find the greatest common factor.

Form A

1 24 and 20: _____

2 36 and 42: _____

3 16 and 32: _____

4 12 and 8: _____

5 80 and 70: _____

6 50 and 14: _____

7 100 and 75: _____

8 15 and 18: _____

9 14 and 21: _____

10 40 and 60: _____

11 25 and 45: _____

12 33 and 77: _____

13 36 and 81: _____

14 64 and 40: _____

15 35 and 28: _____

16 17 and 34: _____

17 15 and 28: _____

18 3 and 69: _____

19 18 and 28: _____

20 27 and 63: _____

21 20 and 45: _____

22 54 and 24: _____

23 18 and 45: _____

24 72 and 64: _____



Greatest Common Factors—Skills Practice

Name: _____

Find the greatest common factor.

Form B

1 21 and 28: _____

2 50 and 75: _____

3 15 and 30: _____

4 6 and 9: _____

5 60 and 80: _____

6 16 and 40: _____

7 30 and 48: _____

8 12 and 18: _____

9 16 and 24: _____

10 40 and 90: _____

11 44 and 24: _____

12 26 and 16: _____

13 12 and 25: _____

14 7 and 42: _____

15 35 and 55: _____

16 44 and 99: _____

17 27 and 72: _____

18 13 and 39: _____

19 45 and 81: _____

20 40 and 25: _____

21 20 and 42: _____

22 120 and 70: _____

23 22 and 77: _____

24 72 and 63: _____

Least Common Multiples—Skills Practice

Name: _____

Find the least common multiple.

Form A

1 4 and 7: _____

2 5 and 6: _____

3 3 and 8: _____

4 4 and 6: _____

5 6 and 9: _____

6 10 and 6: _____

7 2 and 8: _____

8 3 and 4: _____

9 5 and 7: _____

10 8 and 9: _____

11 12 and 8: _____

12 8 and 10: _____

13 9 and 7: _____

14 2 and 11: _____

15 6 and 12: _____

16 11 and 9: _____

17 9 and 4: _____

18 3 and 6: _____

19 5 and 9: _____

20 11 and 8: _____

21 10 and 5: _____

22 13 and 39: _____

23 4 and 16: _____

24 7 and 6: _____



Least Common Multiples—Skills Practice

Name: _____

Find the least common multiple.

Form B

1 4 and 5: _____

2 2 and 6: _____

3 3 and 11: _____

4 7 and 6: _____

5 12 and 9: _____

6 10 and 12: _____

7 8 and 12: _____

8 5 and 8: _____

9 3 and 5: _____

10 4 and 9: _____

11 10 and 3: _____

12 6 and 4: _____

13 7 and 8: _____

14 2 and 9: _____

15 4 and 11: _____

16 8 and 4: _____

17 3 and 7: _____

18 9 and 3: _____

19 4 and 10: _____

20 5 and 11: _____

21 12 and 2: _____

22 7 and 28: _____

23 8 and 6: _____

24 21 and 3: _____

Exponents—Skills Practice

Name: _____

Evaluate the expression.

Form A

1 $5^2 =$ _____

2 $3^2 + 7^2 =$ _____

3 $4^2 \times 3^3 =$ _____

4 $2^3(4^3 + 6^2) =$ _____

5 $7^3 =$ _____

6 $4^4(1^8 + 2^2) =$ _____

7 $4^3 + 5^4 =$ _____

8 $\frac{9^2 - 7^2}{2^4} =$ _____

9 $8^3 =$ _____

10 $3^5 + 2^7 =$ _____

11 $9^2 =$ _____

12 $2^6 - 3^3 =$ _____

13 $\frac{10^2 + 3^2}{1^{13}} =$ _____

14 $3^4 =$ _____

15 $\frac{6^2 - 2^5}{2^2} =$ _____

16 $5^3 - 2^3 =$ _____

17 $8^2 \times 6^2 =$ _____

18 $\frac{3^3 + 6^2}{3^2} =$ _____

19 $2^5 =$ _____

20 $\frac{10^3}{2^2 + 6^2} =$ _____

21 $6^3 =$ _____



Exponents—Skills Practice

Name: _____

Evaluate the expression.

Form B

1 $6^2 =$ _____

2 $4^2 + 8^2 =$ _____

3 $5^2 \times 3^3 =$ _____

4 $3^2(9^2 + 2^4) =$ _____

5 $9^3 =$ _____

6 $2^3(7^3 + 1^9) =$ _____

7 $5^3 + 3^5 =$ _____

8 $\frac{6^2 - 3^2}{3^3} =$ _____

9 $4^3 =$ _____

10 $2^5 + 7^3 =$ _____

11 $8^2 =$ _____

12 $3^4 - 2^4 =$ _____

13 $\frac{9^2 + 10^3}{1^{12}} =$ _____

14 $7^4 =$ _____

15 $\frac{10^2 - 8^2}{3^2} =$ _____

16 $4^4 - 5^2 =$ _____

17 $7^2 \times 9^2 =$ _____

18 $\frac{6^2 + 8^2}{5^2} =$ _____

19 $2^6 =$ _____

20 $\frac{10^4}{8^2 + 4^2} =$ _____

21 $4^5 =$ _____

Look for patterns in expressions with exponents.

Set A

1 $10^2 \times 10^1 =$ _____

2 $10^2 \times 10^2 =$ _____

3 $10^2 \times 10^3 =$ _____

4 $10^3 \times 10^1 =$ _____

5 $10^3 \times 10^2 =$ _____

6 $10^3 \times 10^3 =$ _____

7 $10^4 \times 10^1 =$ _____

8 $10^4 \times 10^2 =$ _____

9 $10^4 \times 10^3 =$ _____

Set B

1 $\frac{10^7}{10} =$ _____

2 $\frac{10^7}{10^2} =$ _____

3 $\frac{10^7}{10^3} =$ _____

4 $\frac{10^8}{10} =$ _____

5 $\frac{10^8}{10^2} =$ _____

6 $\frac{10^8}{10^3} =$ _____

7 $\frac{10^9}{10} =$ _____

8 $\frac{10^9}{10^2} =$ _____

9 $\frac{10^9}{10^3} =$ _____

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



Order of Operations—Skills Practice

Name: _____

Evaluate the expression.

Form A

1 $7 + 6 \times 2 =$ _____

2 $0.25 \times 16 + 4 =$ _____

3 $26 - 3 \times 4 =$ _____

4 $18 + 14 \times 0.5 =$ _____

5 $18 \div 2 + 7 =$ _____

6 $8 + 6 \times 3^2 =$ _____

7 $18 - 8^2 \div 4 =$ _____

8 $12 - 8 \times 0.25 =$ _____

9 $9 + 25 \div 5^2 =$ _____

10 $6^2 \div 9 + 3 =$ _____

11 $48 \div 0.5 + 2 =$ _____

12 $42 + 0.2 \times 30 =$ _____

13 $36 \div 3 \times 4 =$ _____

14 $131 - 4 \times 2^3 =$ _____

15 $56 - 0.3 \times 40 =$ _____

16 $32 - 8 + 11 =$ _____

17 $96 \div 2^4 + 32 =$ _____

18 $35 - 0.5 \times 56 =$ _____

19 $10^2 \div 5 \times 4 =$ _____

20 $3^3 + 18 \div 3 =$ _____

Order of Operations—Skills Practice

Name: _____

Evaluate the expression.

Form B

1 $8 + 7 \times 2 =$ _____

2 $0.4 \times 20 + 5 =$ _____

3 $34 - 4 \times 8 =$ _____

4 $26 + 12 \times 0.5 =$ _____

5 $24 \div 2 + 6 =$ _____

6 $6 + 5 \times 4^2 =$ _____

7 $18 - 6^2 \div 3 =$ _____

8 $16 - 12 \times 0.25 =$ _____

9 $4 + 9 \div 3^2 =$ _____

10 $8^2 \div 2 + 6 =$ _____

11 $26 \div 0.5 + 6 =$ _____

12 $54 + 0.2 \times 60 =$ _____

13 $54 \div 6 \times 3 =$ _____

14 $191 - 2 \times 3^4 =$ _____

15 $48 - 0.3 \times 30 =$ _____

16 $46 - 7 + 14 =$ _____

17 $72 \div 2^3 + 1 =$ _____

18 $41 - 0.5 \times 46 =$ _____

19 $6^2 \div 9 \times 2 =$ _____

20 $4^3 + 32 \div 8 =$ _____



Evaluate Expressions with Variables— Skills Practice

Name: _____

Evaluate the expression.

Form A

1 $s = 7; 6s^2 =$ _____

2 $x = 3; 4x^3 + 2 =$ _____

3 $n = \frac{1}{8}; \frac{2}{n} =$ _____

4 $x = \frac{1}{6}; 18x + 4 =$ _____

5 $x = 7; \frac{4x + 8}{2} =$ _____

6 $p = 0.5; 42 - 42p =$ _____

7 $x = 0.25; 48x - 3 =$ _____

8 $a = 3; a^3 =$ _____

9 $y = 84; \frac{y}{4} - 15 =$ _____

10 $c = 35; \frac{9c}{5} + 32 =$ _____

11 $n = 0.5; \frac{8}{n} + 8 =$ _____

12 $x = 3; 169 - 2x^4 =$ _____

13 $a = 3; 12a^2 =$ _____

14 $w = \frac{1}{5}; 38 - 15w =$ _____

15 $x = 9; 8x + 3 =$ _____

16 $m = 2; \frac{16}{2m} =$ _____

17 $x = 7; x^2 - 5^2 =$ _____

18 $p = 25; \frac{p}{100} (120) =$ _____

Evaluate Expressions with Variables— Skills Practice

Name: _____

Evaluate the expression.

Form B

1 $s = 8; 6s^2 =$ _____

2 $x = 2; 7x^3 + 4 =$ _____

3 $n = \frac{1}{6}; \frac{4}{n} =$ _____

4 $x = \frac{1}{3}; 12x + 7 =$ _____

5 $x = 8; \frac{6x + 9}{3} =$ _____

6 $p = 0.2; 20 - 20p =$ _____

7 $x = 2; 78 - 4x^3 =$ _____

8 $a = 2; a^3 =$ _____

9 $y = 96; \frac{y}{6} - 12 =$ _____

10 $c = 45; \frac{9c}{5} + 32 =$ _____

11 $n = 0.5; \frac{12}{n} + 15 =$ _____

12 $x = 2; 24x \div 6 =$ _____

13 $a = 6; 5a^2 =$ _____

14 $w = \frac{1}{2}; 46 - 4w =$ _____

15 $x = 7; 9x + 4 =$ _____

16 $m = 3; \frac{30}{5m} =$ _____

17 $x = 9; x^2 - 7^2 =$ _____

18 $p = 50; \frac{p}{100} (460) =$ _____



Equivalent Expressions—Skills Practice

Name: _____

Use the distributive property to write an equivalent expression.

Form A

1 $5x + 20 =$ _____

2 $3(x + 6) =$ _____

3 $8(4n + 3) =$ _____

4 $7x - 35 =$ _____

5 $12x - 6 =$ _____

6 $20p + 16 =$ _____

7 $9(2x + 9) =$ _____

8 $5(6 + 13a) =$ _____

9 $36 + 9y =$ _____

10 $6(c + 8) =$ _____

11 $7(n - 3) =$ _____

12 $2(12 + 10x) =$ _____

13 $21 + 15a =$ _____

14 $4(5 - 4w) =$ _____

15 $32 - 12x =$ _____

16 $10(2m - 7) =$ _____

17 $8 + 36x =$ _____

18 $11(6 + 4p) =$ _____

19 $25(4n + 8) =$ _____

20 $20w + 30 =$ _____

Equivalent Expressions—Skills Practice

Name: _____

Use the distributive property to write an equivalent expression.

Form B

1 $6x + 18 =$ _____

2 $4(x + 7) =$ _____

3 $9(3n + 5) =$ _____

4 $4x - 32 =$ _____

5 $15x - 5 =$ _____

6 $30p + 18 =$ _____

7 $8(3x + 7) =$ _____

8 $7(9 + 12a) =$ _____

9 $42 + 6y =$ _____

10 $3(c + 4) =$ _____

11 $5(n - 8) =$ _____

12 $6(5 + 9x) =$ _____

13 $24 + 18a =$ _____

14 $11(8 - 6w) =$ _____

15 $42 - 36x =$ _____

16 $25(10m + 3) =$ _____

17 $6 + 14x =$ _____

18 $10(3p - 4) =$ _____

19 $2(7n + 6) =$ _____

20 $40w + 70 =$ _____



Solving Equations—Skills Practice

Name: _____

Solve the equation.

Form A

1 $x + 24 = 36$; $x =$ _____

2 $5 = 6y$; $y =$ _____

3 $\frac{5}{3} + x = 2$; $x =$ _____

4 $7w = 28$; $w =$ _____

5 $\frac{9}{5} = 1 + m$; $m =$ _____

6 $0.5x = 14$; $x =$ _____

7 $\frac{7}{2} = 4x$; $x =$ _____

8 $215 + p = 230$; $p =$ _____

9 $\frac{5}{6}x = 20$; $x =$ _____

10 $x + 32 = 45$; $x =$ _____

11 $c + \frac{2}{5} = 2$; $c =$ _____

12 $0.2 + x = 3$; $x =$ _____

13 $9 = 4y$; $y =$ _____

14 $x + 0.8 = 4.3$; $x =$ _____

15 $56 + n = 97$; $n =$ _____

16 $39 = 17 + x$; $x =$ _____

17 $0.6 + w = 4$; $w =$ _____

18 $9y = 189$; $y =$ _____

Solving Equations—Skills Practice

Name: _____

Solve the equation.

Form B

1 $x + 26 = 39$; $x =$ _____

2 $4 = 5y$; $y =$ _____

3 $\frac{7}{3} + x = 3$; $x =$ _____

4 $8w = 48$; $w =$ _____

5 $\frac{7}{4} = 1 + m$; $m =$ _____

6 $0.5x = 18$; $x =$ _____

7 $\frac{5}{2} = 3x$; $x =$ _____

8 $225 + p = 260$; $p =$ _____

9 $\frac{3}{4}x = 24$; $x =$ _____

10 $x + 41 = 63$; $x =$ _____

11 $c + \frac{2}{3} = 4$; $c =$ _____

12 $0.4 + x = 4$; $x =$ _____

13 $7 = 6y$; $y =$ _____

14 $x + 0.5 = 3.7$; $x =$ _____

15 $48 + n = 79$; $n =$ _____

16 $43 = 11 + x$; $x =$ _____

17 $0.8 + w = 5$; $w =$ _____

18 $4y = 248$; $y =$ _____

