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# 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.

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# 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.

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# 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.

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# 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.

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# 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  $120 \div 10 =$  \_\_\_\_\_

2  $1,200 \div 10 =$  \_\_\_\_\_

3  $12,000 \div 10 =$  \_\_\_\_\_

4  $120 \div 20 =$  \_\_\_\_\_

5  $1,200 \div 20 =$  \_\_\_\_\_

6  $12,000 \div 20 =$  \_\_\_\_\_

7  $120 \div 30 =$  \_\_\_\_\_

8  $1,200 \div 30 =$  \_\_\_\_\_

9  $12,000 \div 30 =$  \_\_\_\_\_

10  $120 \div 40 =$  \_\_\_\_\_

11  $1,200 \div 40 =$  \_\_\_\_\_

12  $12,000 \div 40 =$  \_\_\_\_\_

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

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# 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.

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# 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.

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# 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**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# Multiply Decimals—Repeated Reasoning

Name: \_\_\_\_\_

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.

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# 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.

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# 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.

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# 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**  $4y = 248$ ;  $y =$  \_\_\_\_\_

