

EPCS

65 W. Demarest Avenue

Englewood, NJ 07631

2024 - 2025 6th Grade Preparation Packet

Welcome to 6th Grade Mathematics! Our 6th Grade Mathematics Course is a comprehensive course that will provide you with the fundamental tools of mathematical understanding that will support you in future math courses. Since you will be taking 6th Grade Mathematics after successful completion of 5th Grade Mathematics, this preparation packet contains review material of the 5th grade concepts, skills, and procedures that should be mastered **BEFORE** entering 6th grade in the fall. Essentially, the packet provides a review of the major 5th grade topics as well as a preview of the 6th grade learning standards.

Here are some websites you might find particularly useful:

- [iReady.com](https://www.ixl.com/math/)
- <http://www.khanacademy.org/>
- www.ixl.com/math/
- www.brainpop.com
- www.geogebra.org
- www.math-aids.com
- www.jeopardylabs.com
- www.kutasoftware.com

This collection of problems will identify those concepts you have mastered as well as those you will need to practice and review. You are expected to seek extra help immediately on those concepts with which you have not demonstrated proficiency. Be resourceful - use the online resources.

***** Solve these problems without the use of a calculator and show all work.*****

You will be responsible for handing in the completed packet with all work shown on the first day of school. The problems here are very representative of the types of items you will need to have mastered BEFORE 6th Grade Math... so we strongly encourage you to include this packet in your summer festivities! Good luck and enjoy!

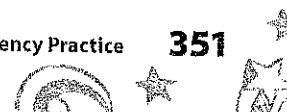
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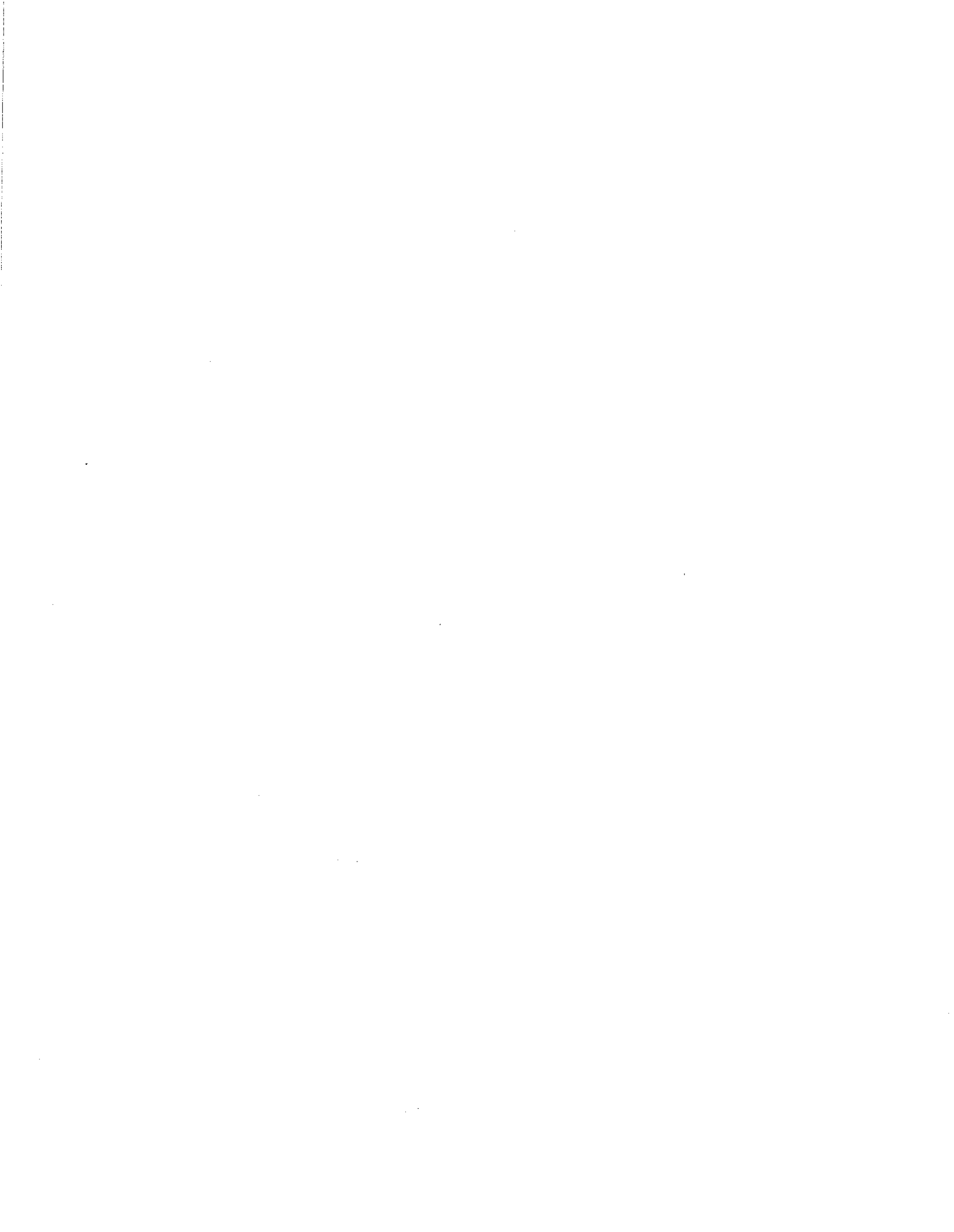
6th Grade Preparation Packet Score: _____/50



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Multi-Digit Addition—Skills Practice

Name: _____

Add within 1,000,000.

Form A

$$\begin{array}{r} 1 \quad 4,699 \\ + \quad 209 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 733,633 \\ + \quad 5,678 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 5,050 \\ + 5,049 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 35,009 \\ + 21,991 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 123,321 \\ + \quad 987 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 806,515 \\ + 14,372 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 97,342 \\ + \quad 728 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 150,225 \\ + 145,225 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 28,403 \\ + 26,910 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 5,146 \\ + 5,915 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 915,412 \\ + 15,412 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 42,963 \\ + 8,825 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 188,888 \\ + 222,222 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 670,780 \\ + \quad 9,564 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 16,275 \\ + 36,334 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 7,741 \\ + 2,260 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 10,864 \\ + \quad 864 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 642,002 \\ + 80,999 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 22,987 \\ + 44,789 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 47,247 \\ + 8,747 \\ \hline \end{array}$$

Multi-Digit Subtraction—Skills Practice

Name: _____

Subtract within 1,000,000.

Form A

$$\begin{array}{r} 11,223 \\ - 311 \\ \hline \end{array}$$

$$\begin{array}{r} 2,123 \\ - 1,321 \\ \hline \end{array}$$

$$\begin{array}{r} 432,765 \\ - 43,276 \\ \hline \end{array}$$

$$\begin{array}{r} 80,449 \\ - 24,085 \\ \hline \end{array}$$

$$\begin{array}{r} 184,234 \\ - 93,517 \\ \hline \end{array}$$

$$\begin{array}{r} 319,019 \\ - 9,416 \\ \hline \end{array}$$

$$\begin{array}{r} 62,626 \\ - 6,262 \\ \hline \end{array}$$

$$\begin{array}{r} 37,740 \\ - 18,870 \\ \hline \end{array}$$

$$\begin{array}{r} 7,347 \\ - 5,182 \\ \hline \end{array}$$

$$\begin{array}{r} 956,201 \\ - 524,110 \\ \hline \end{array}$$

$$\begin{array}{r} 476,747 \\ - 9,696 \\ \hline \end{array}$$

$$\begin{array}{r} 535 \\ - 353 \\ \hline \end{array}$$

$$\begin{array}{r} 90,000 \\ - 1,234 \\ \hline \end{array}$$

$$\begin{array}{r} 37,665 \\ - 776 \\ \hline \end{array}$$

$$\begin{array}{r} 215,451 \\ - 8,795 \\ \hline \end{array}$$

$$\begin{array}{r} 52,252 \\ - 50,992 \\ \hline \end{array}$$

$$\begin{array}{r} 602,602 \\ - 444,444 \\ \hline \end{array}$$

$$\begin{array}{r} 5,702 \\ - 2,915 \\ \hline \end{array}$$

$$\begin{array}{r} 877,007 \\ - 525 \\ \hline \end{array}$$

$$\begin{array}{r} 13,579 \\ - 2,846 \\ \hline \end{array}$$

Multi-Digit Multiplication—Skills Practice

Name: _____

Multiply.

Form A

$$\begin{array}{r} \text{1} \quad 205 \\ \times 33 \\ \hline \end{array}$$

$$\begin{array}{r} \text{2} \quad 6,660 \\ \times 70 \\ \hline \end{array}$$

$$\begin{array}{r} \text{3} \quad 378 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} \text{4} \quad 1,221 \\ \times 91 \\ \hline \end{array}$$

$$\begin{array}{r} \text{5} \quad 5,062 \\ \times 25 \\ \hline \end{array}$$

$$\begin{array}{r} \text{6} \quad 829 \\ \times 62 \\ \hline \end{array}$$

$$\begin{array}{r} \text{7} \quad 116 \\ \times 46 \\ \hline \end{array}$$

$$\begin{array}{r} \text{8} \quad 7,256 \\ \times 56 \\ \hline \end{array}$$

$$\begin{array}{r} \text{9} \quad 444 \\ \times 99 \\ \hline \end{array}$$

$$\begin{array}{r} \text{10} \quad 3,136 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} \text{11} \quad 2,222 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} \text{12} \quad 761 \\ \times 80 \\ \hline \end{array}$$

$$\begin{array}{r} \text{13} \quad 530 \\ \times 28 \\ \hline \end{array}$$

$$\begin{array}{r} \text{14} \quad 142 \\ \times 222 \\ \hline \end{array}$$

$$\begin{array}{r} \text{15} \quad 875 \\ \times 305 \\ \hline \end{array}$$

$$\begin{array}{r} \text{16} \quad 250 \\ \times 250 \\ \hline \end{array}$$

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-, 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.

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

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

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.

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 $25 \overline{)1,200}$

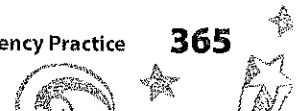
6 $50 \overline{)1,200}$

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—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
$$\begin{array}{r} 0.99 \\ + 0.01 \\ \hline \end{array}$$

2
$$\begin{array}{r} 2.99 \\ + 3.01 \\ \hline \end{array}$$

3
$$\begin{array}{r} 50.99 \\ + 40.01 \\ \hline \end{array}$$

4
$$\begin{array}{r} 0.99 \\ + 0.02 \\ \hline \end{array}$$

5
$$\begin{array}{r} 2.99 \\ + 3.02 \\ \hline \end{array}$$

6
$$\begin{array}{r} 50.99 \\ + 40.02 \\ \hline \end{array}$$

7
$$\begin{array}{r} 0.99 \\ + 0.03 \\ \hline \end{array}$$

8
$$\begin{array}{r} 2.99 \\ + 3.03 \\ \hline \end{array}$$

9
$$\begin{array}{r} 50.99 \\ + 40.03 \\ \hline \end{array}$$

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

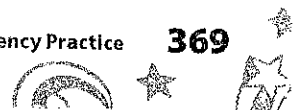
17
$$\begin{array}{r} 99.88 \\ - 88.99 \\ \hline \end{array}$$

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



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
$$\begin{array}{r} 52.1 \\ - 1.01 \\ \hline \end{array}$$

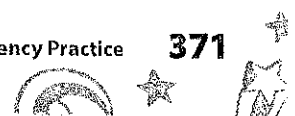
6
$$\begin{array}{r} 102.1 \\ - 1.01 \\ \hline \end{array}$$

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

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
$$\begin{array}{r} 4 \\ \times 0.2 \\ \hline \end{array}$$

2
$$\begin{array}{r} 0.4 \\ \times 0.2 \\ \hline \end{array}$$

3
$$\begin{array}{r} 0.04 \\ \times 0.2 \\ \hline \end{array}$$

4
$$\begin{array}{r} 8 \\ \times 0.2 \\ \hline \end{array}$$

5
$$\begin{array}{r} 0.8 \\ \times 0.2 \\ \hline \end{array}$$

6
$$\begin{array}{r} 0.08 \\ \times 0.2 \\ \hline \end{array}$$

7
$$\begin{array}{r} 12 \\ \times 0.2 \\ \hline \end{array}$$

8
$$\begin{array}{r} 1.2 \\ \times 0.2 \\ \hline \end{array}$$

9
$$\begin{array}{r} 0.12 \\ \times 0.2 \\ \hline \end{array}$$

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 $3.2 \div 4 =$ _____

2 $12 \div 0.12 =$ _____

3 $2.8 \div 0.7 =$ _____

4 $0.9 \div 0.1 =$ _____

5 $6 \div 0.3 =$ _____

6 $1.15 \div 0.05 =$ _____

7 $1.32 \div 12 =$ _____

8 $1.32 \div 0.12 =$ _____

9 $0.8 \div 4 =$ _____

10 $1.04 \div 0.8 =$ _____

11 $3.6 \div 0.9 =$ _____

12 $30 \div 0.5 =$ _____

13 $24 \div 0.04 =$ _____

14 $1.2 \div 0.6 =$ _____

15 $1.2 \div 0.06 =$ _____

16 $0.15 \div 3 =$ _____

17 $3.33 \div 0.3 =$ _____

18 $28 \div 1.4 =$ _____

19 $1.05 \div 5 =$ _____

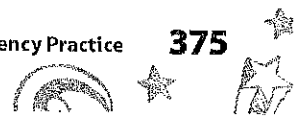
20 $1.05 \div 0.05 =$ _____

21 $0.49 \div 0.7 =$ _____

22 $0.8 \div 8 =$ _____

23 $4.4 \div 11 =$ _____

24 $0.36 \div 6 =$ _____



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 $0.2 \overline{)0.4}$

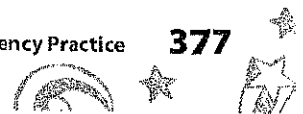
6 $0.2 \overline{)0.04}$

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.



Add fractions or mixed numbers.

Form A

$$1 \quad 2\frac{3}{10} + \frac{2}{5} = \underline{\hspace{2cm}}$$

$$2 \quad \frac{3}{4} + 3\frac{5}{6} = \underline{\hspace{2cm}}$$

$$3 \quad \frac{1}{2} + \frac{3}{8} = \underline{\hspace{2cm}}$$

$$4 \quad 1\frac{1}{2} + 2\frac{2}{3} = \underline{\hspace{2cm}}$$

$$5 \quad 2\frac{3}{5} + 1\frac{1}{3} = \underline{\hspace{2cm}}$$

$$6 \quad \frac{1}{5} + \frac{3}{4} = \underline{\hspace{2cm}}$$

$$7 \quad 9\frac{2}{3} + \frac{5}{6} = \underline{\hspace{2cm}}$$

$$8 \quad \frac{11}{12} + 2\frac{3}{4} = \underline{\hspace{2cm}}$$

$$9 \quad 2\frac{1}{2} + 1\frac{2}{5} = \underline{\hspace{2cm}}$$

$$10 \quad \frac{1}{4} + 1\frac{1}{3} = \underline{\hspace{2cm}}$$

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

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

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

Find regrouping patterns.

Set A

$$1 \quad 1 \frac{3}{4} + \frac{1}{4} = \underline{\hspace{2cm}}$$

$$2 \quad 1 \frac{3}{4} + \frac{1}{2} = \underline{\hspace{2cm}}$$

$$3 \quad 2 \frac{3}{4} + \frac{1}{4} = \underline{\hspace{2cm}}$$

$$4 \quad 2 \frac{3}{4} + \frac{1}{2} = \underline{\hspace{2cm}}$$

$$5 \quad 3 \frac{3}{4} + \frac{1}{4} = \underline{\hspace{2cm}}$$

$$6 \quad 3 \frac{3}{4} + \frac{1}{2} = \underline{\hspace{2cm}}$$

$$7 \quad 4 \frac{3}{4} + \frac{1}{4} = \underline{\hspace{2cm}}$$

$$8 \quad 4 \frac{3}{4} + \frac{1}{2} = \underline{\hspace{2cm}}$$

Set B

$$1 \quad \begin{array}{r} 2 \frac{7}{8} \\ + \frac{1}{8} \\ \hline \end{array}$$

$$2 \quad \begin{array}{r} 2 \frac{7}{8} \\ + \frac{1}{4} \\ \hline \end{array}$$

$$3 \quad \begin{array}{r} 2 \frac{7}{8} \\ + \frac{1}{2} \\ \hline \end{array}$$

$$4 \quad \begin{array}{r} 3 \frac{7}{8} \\ + \frac{1}{8} \\ \hline \end{array}$$

$$5 \quad \begin{array}{r} 3 \frac{7}{8} \\ + \frac{1}{4} \\ \hline \end{array}$$

$$6 \quad \begin{array}{r} 3 \frac{7}{8} \\ + \frac{1}{2} \\ \hline \end{array}$$

$$7 \quad \begin{array}{r} 4 \frac{7}{8} \\ + \frac{1}{8} \\ \hline \end{array}$$

$$8 \quad \begin{array}{r} 4 \frac{7}{8} \\ + \frac{1}{4} \\ \hline \end{array}$$

$$9 \quad \begin{array}{r} 4 \frac{7}{8} \\ + \frac{1}{2} \\ \hline \end{array}$$

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—Repeated Reasoning

Name: _____

Find regrouping patterns.

Set A

$$\textcircled{1} \quad 1\frac{3}{4} - \frac{1}{2} = \underline{\hspace{2cm}}$$

$$\textcircled{2} \quad 1\frac{1}{2} - \frac{3}{4} = \underline{\hspace{2cm}}$$

$$\textcircled{3} \quad 2\frac{3}{4} - \frac{1}{2} = \underline{\hspace{2cm}}$$

$$\textcircled{4} \quad 2\frac{1}{2} - \frac{3}{4} = \underline{\hspace{2cm}}$$

$$\textcircled{5} \quad 3\frac{3}{4} - \frac{1}{2} = \underline{\hspace{2cm}}$$

$$\textcircled{6} \quad 3\frac{1}{2} - \frac{3}{4} = \underline{\hspace{2cm}}$$

$$\textcircled{7} \quad 4\frac{3}{4} - \frac{1}{2} = \underline{\hspace{2cm}}$$

$$\textcircled{8} \quad 4\frac{1}{2} - \frac{3}{4} = \underline{\hspace{2cm}}$$

Set B

$$\textcircled{1} \quad \begin{array}{r} 6\frac{1}{4} \\ - \frac{1}{4} \\ \hline \end{array}$$

$$\textcircled{2} \quad \begin{array}{r} 6\frac{1}{4} \\ - \frac{1}{2} \\ \hline \end{array}$$

$$\textcircled{3} \quad \begin{array}{r} 6\frac{1}{4} \\ - \frac{3}{4} \\ \hline \end{array}$$

$$\textcircled{4} \quad \begin{array}{r} 7\frac{1}{4} \\ - \frac{1}{4} \\ \hline \end{array}$$

$$\textcircled{5} \quad \begin{array}{r} 7\frac{1}{4} \\ - \frac{1}{2} \\ \hline \end{array}$$

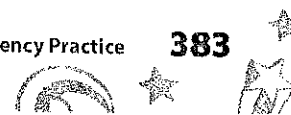
$$\textcircled{6} \quad \begin{array}{r} 7\frac{1}{4} \\ - \frac{3}{4} \\ \hline \end{array}$$

$$\textcircled{7} \quad \begin{array}{r} 8\frac{1}{4} \\ - \frac{1}{4} \\ \hline \end{array}$$

$$\textcircled{8} \quad \begin{array}{r} 8\frac{1}{4} \\ - \frac{1}{2} \\ \hline \end{array}$$

$$\textcircled{9} \quad \begin{array}{r} 8\frac{1}{4} \\ - \frac{3}{4} \\ \hline \end{array}$$

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

Multiply by a unit fraction to find patterns.

Set A

1 $12 \div 2 = \underline{\hspace{2cm}}$

2 $12 \times \frac{1}{2} = \begin{array}{c} \square \\ \square \end{array} = \underline{\hspace{2cm}}$

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

4 $12 \times \frac{1}{3} = \begin{array}{c} \square \\ \square \\ \square \end{array} = \underline{\hspace{2cm}}$

5 $12 \div 4 = \underline{\hspace{2cm}}$

6 $12 \times \frac{1}{4} = \begin{array}{c} \square \\ \square \\ \square \\ \square \end{array} = \underline{\hspace{2cm}}$

7 $12 \div 6 = \underline{\hspace{2cm}}$

8 $12 \times \frac{1}{6} = \begin{array}{c} \square \\ \square \\ \square \\ \square \\ \square \\ \square \end{array} = \underline{\hspace{2cm}}$

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

10 $12 \times \frac{1}{12} = \begin{array}{c} \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \end{array} = \underline{\hspace{2cm}}$

Set B

1 $6 \div 6 = \underline{\hspace{2cm}}$

2 $6 \times \frac{1}{6} = \begin{array}{c} \square \\ \square \end{array} = \underline{\hspace{2cm}}$

3 $60 \div 60 = \underline{\hspace{2cm}}$

4 $60 \times \frac{1}{60} = \begin{array}{c} \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \end{array} = \underline{\hspace{2cm}}$

5 $600 \div 600 = \underline{\hspace{2cm}}$

6 $600 \times \frac{1}{600} = \begin{array}{c} \square \\ \square \end{array} = \underline{\hspace{2cm}}$

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

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

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.

