

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

# Rising 6th Grade Summer Skills Packet

Please complete this packet and turn in to your new 6th grade math teacher  
on the first day of school.

Hello 6th Grade Parents,

We are so excited to be working with your child in 6th grade math next year! In an effort to keep the skills and concepts learned in 5th grade fresh in your child's mind and get your child off to a great start in the new school year, we have created a summer skill packet. There are no new skills in this packet.

Please assist your child by checking for accuracy and completion of this packet in a timely manner. It will provide you with the ability to determine if you need to help support your child any further in understanding these basic skills. We highly recommend you parse out the work in small portions throughout the summer, rather than waiting a few days before school starts. That way, this will not be an overwhelming experience for you and your child.

If you want your child to practice more skills or start on 6th grade math skills (or beyond), your child's Khan Academy account can provide them with many skills to practice. Your child should know their username/password and if by chance, your child has forgotten their username/password, it is very easy to set up a new account.

Your child should be able to add, subtract, multiply, and divide decimals and fractions (including mixed numbers) without any error. Along with the four operations, your child should be able to simplify, convert improper fractions to mixed numbers, and mixed numbers to improper fractions. Having these skills mastered will make your child's transition to 6th grade much easier because many skills and concepts rely on this understanding.

If you have any questions regarding this packet please feel free to email Valerie Willuweit ([vawilluweit@cps.edu](mailto:vawilluweit@cps.edu)).

From,

The 6th Grade Team



## Multiply in columns - 2 digit by 3 digit

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### Grade 5 Multiplication Worksheet

Find the product.

$$\begin{array}{r} 1. \quad 257 \\ \times 50 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 642 \\ \times 50 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 517 \\ \times 82 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 690 \\ \times 52 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 942 \\ \times 17 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 511 \\ \times 98 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 748 \\ \times 50 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 575 \\ \times 50 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 902 \\ \times 78 \\ \hline \\ \hline \end{array}$$



## Multiply in columns - 3 digit by 3 digit

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### Grade 5 Multiplication Worksheet

Find the product.

$$\begin{array}{r} 1. \quad 617 \\ \times 362 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 322 \\ \times 638 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 552 \\ \times 708 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 474 \\ \times 459 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 242 \\ \times 836 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 568 \\ \times 566 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 443 \\ \times 120 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 841 \\ \times 435 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 403 \\ \times 415 \\ \hline \\ \hline \end{array}$$



## Long Division with remainders (2-digit divisors)

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### Grade 5 Division Worksheet

Find the quotient with remainder.

1.  $23 \overline{) 19,386}$

2.  $18 \overline{) 22,829}$

3.  $14 \overline{) 19,226}$

4.  $21 \overline{) 39,171}$

5.  $21 \overline{) 91,403}$

6.  $23 \overline{) 31,389}$



## Adding mixed numbers and fractions (unlike denominators)

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### Grade 5 Fractions Worksheet

Find the sum.

1.  $5\frac{2}{9} + \frac{6}{7} =$  \_\_\_\_\_

2.  $7\frac{2}{6} + \frac{1}{12} =$  \_\_\_\_\_

3.  $1\frac{1}{10} + \frac{7}{8} =$  \_\_\_\_\_

4.  $5\frac{4}{7} + \frac{1}{9} =$  \_\_\_\_\_

5.  $2\frac{1}{2} + \frac{1}{5} =$  \_\_\_\_\_

6.  $1\frac{8}{11} + \frac{2}{8} =$  \_\_\_\_\_

7.  $10\frac{6}{10} + \frac{2}{4} =$  \_\_\_\_\_

8.  $2\frac{1}{2} + \frac{5}{6} =$  \_\_\_\_\_

9.  $6\frac{6}{7} + \frac{3}{9} =$  \_\_\_\_\_

10.  $10\frac{2}{6} + \frac{5}{12} =$  \_\_\_\_\_

11.  $1\frac{4}{11} + \frac{2}{5} =$  \_\_\_\_\_

12.  $7\frac{8}{11} + \frac{3}{5} =$  \_\_\_\_\_

13.  $7\frac{3}{10} + \frac{5}{12} =$  \_\_\_\_\_

14.  $7\frac{2}{6} + \frac{1}{4} =$  \_\_\_\_\_



## Subtracting mixed numbers (unlike denominators)

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### Grade 5 Fractions Worksheet

Find the difference.

1.  $16\frac{3}{9} - 10\frac{2}{5} =$  \_\_\_\_\_

2.  $7\frac{5}{12} - 2\frac{1}{2} =$  \_\_\_\_\_

3.  $8\frac{9}{10} - 3\frac{2}{3} =$  \_\_\_\_\_

4.  $19\frac{2}{3} - 11\frac{5}{8} =$  \_\_\_\_\_

5.  $13\frac{1}{8} - 12\frac{10}{12} =$  \_\_\_\_\_

6.  $18\frac{1}{2} - 17\frac{2}{8} =$  \_\_\_\_\_

7.  $14\frac{4}{10} - 13\frac{1}{3} =$  \_\_\_\_\_

8.  $19\frac{7}{12} - 19\frac{1}{5} =$  \_\_\_\_\_

9.  $20\frac{3}{4} - 18\frac{2}{3} =$  \_\_\_\_\_

10.  $19\frac{7}{10} - 13\frac{4}{10} =$  \_\_\_\_\_

11.  $17\frac{5}{6} - 1\frac{3}{5} =$  \_\_\_\_\_

12.  $9\frac{1}{5} - 5\frac{4}{6} =$  \_\_\_\_\_



## Multiplying fractions practice

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### Grade 5 Fractions Worksheet

Calculate.

1.  $2\frac{7}{12} \times \frac{8}{12} =$  \_\_\_\_\_

2.  $2\frac{1}{2} \times 2\frac{1}{2} =$  \_\_\_\_\_

3.  $1\frac{1}{5} \times 1\frac{3}{5} =$  \_\_\_\_\_

4.  $2\frac{7}{10} \times 1\frac{8}{10} =$  \_\_\_\_\_

5.  $\frac{1}{4} \times 1\frac{1}{4} =$  \_\_\_\_\_

6.  $\frac{2}{5} \times 2\frac{4}{5} =$  \_\_\_\_\_

7.  $\frac{5}{16} \times \frac{7}{16} =$  \_\_\_\_\_

8.  $2\frac{1}{12} \times 1\frac{8}{12} =$  \_\_\_\_\_

9.  $2\frac{1}{2} \times \frac{1}{2} =$  \_\_\_\_\_

10.  $\frac{5}{8} \times \frac{5}{8} =$  \_\_\_\_\_

11.  $\frac{1}{9} \times 1\frac{7}{9} =$  \_\_\_\_\_

12.  $1\frac{24}{25} \times 1\frac{3}{25} =$  \_\_\_\_\_

13.  $1\frac{7}{15} \times 1\frac{11}{15} =$  \_\_\_\_\_

14.  $1\frac{1}{6} \times 1\frac{4}{6} =$  \_\_\_\_\_

15.  $2\frac{1}{3} \times 1\frac{2}{3} =$  \_\_\_\_\_

16.  $1\frac{11}{20} \times 2\frac{16}{20} =$  \_\_\_\_\_





## Dividing fractions and mixed numbers practice

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### Grade 5 Fractions Worksheet

Calculate.

1.  $1 \frac{1}{3} \div \frac{2}{3} =$  \_\_\_\_\_

2.  $1 \frac{2}{10} \div 1 \frac{4}{10} =$  \_\_\_\_\_

3.  $\frac{1}{2} \div 1 \frac{1}{2} =$  \_\_\_\_\_

4.  $1 \frac{3}{4} \div \frac{1}{4} =$  \_\_\_\_\_

5.  $\frac{6}{8} \div \frac{4}{8} =$  \_\_\_\_\_

6.  $1 \frac{5}{12} \div \frac{9}{12} =$  \_\_\_\_\_

7.  $\frac{2}{6} \div \frac{5}{6} =$  \_\_\_\_\_

8.  $\frac{4}{5} \div \frac{4}{5} =$  \_\_\_\_\_

9.  $\frac{8}{10} \div 1 \frac{2}{10} =$  \_\_\_\_\_

10.  $\frac{2}{3} \div 1 \frac{1}{3} =$  \_\_\_\_\_



## Convert decimals to mixed numbers

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### Grade 5 Decimals Worksheet

Convert to fractions and simplify if possible.

1.  $30.8 =$  \_\_\_\_\_

2.  $92.2 =$  \_\_\_\_\_

3.  $63.64 =$  \_\_\_\_\_

4.  $52.08 =$  \_\_\_\_\_

5.  $16.5 =$  \_\_\_\_\_

6.  $82.6 =$  \_\_\_\_\_

7.  $96.36 =$  \_\_\_\_\_

8.  $72.8 =$  \_\_\_\_\_

9.  $93.5 =$  \_\_\_\_\_

10.  $16.68 =$  \_\_\_\_\_

11.  $55.14 =$  \_\_\_\_\_

12.  $2.44 =$  \_\_\_\_\_

13.  $72.4 =$  \_\_\_\_\_

14.  $72.6 =$  \_\_\_\_\_

15.  $92.8 =$  \_\_\_\_\_

16.  $39.6 =$  \_\_\_\_\_



## Multiplying decimals in columns

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### Grade 5 Decimals Worksheet

Find the product.

$$\begin{array}{r} 1. \quad 76.2 \\ \times 0.41 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 4.29 \\ \times 7.3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 34.4 \\ \times 0.02 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 4.56 \\ \times 5.6 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 6.86 \\ \times 6.9 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 94.2 \\ \times 0.53 \\ \hline \\ \hline \end{array}$$

# Decimals Worksheet

Solve.

1 a.  $5.2 \div 0.2 = \underline{\hspace{2cm}}$

1 b.  $1.5 \div 0.5 = \underline{\hspace{2cm}}$

2 a.  $6.4 \div 0.4 = \underline{\hspace{2cm}}$

2 b.  $9.6 \div 0.4 = \underline{\hspace{2cm}}$

3 a.  $7.0 \div 0.1 = \underline{\hspace{2cm}}$

3 b.  $0.6 \div 0.6 = \underline{\hspace{2cm}}$

4 a.  $2.8 \div 0.2 = \underline{\hspace{2cm}}$

4 b.  $9.0 \div 0.1 = \underline{\hspace{2cm}}$

5 a.  $2.2 \div 0.2 = \underline{\hspace{2cm}}$

5 b.  $9.8 \div 0.2 = \underline{\hspace{2cm}}$

6 a.  $6.0 \div 0.1 = \underline{\hspace{2cm}}$

6 b.  $7.2 \div 0.8 = \underline{\hspace{2cm}}$

7 a.  $4.5 \div 0.1 = \underline{\hspace{2cm}}$

7 b.  $4.9 \div 0.1 = \underline{\hspace{2cm}}$

8 a.  $7.3 \div 0.1 = \underline{\hspace{2cm}}$

8 b.  $3.5 \div 0.5 = \underline{\hspace{2cm}}$



## Convert customary units (weight, liquid volume, length)

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### Grade 5 Measurement Worksheet

Convert the given measures to new units.

1. 38 oz = \_\_\_\_\_ t
2. 65 yd = \_\_\_\_\_ mi
3. 64 lb = \_\_\_\_\_ t
4. 190 c = \_\_\_\_\_ gal
5. 115 pt = \_\_\_\_\_ c
6. 29 gal = \_\_\_\_\_ qt
7. 35 gal = \_\_\_\_\_ c
8. 14 oz = \_\_\_\_\_ t
9. 109 qt = \_\_\_\_\_ gal
10. 101 ft = \_\_\_\_\_ yd
11. 176 oz = \_\_\_\_\_ t
12. 12 yd = \_\_\_\_\_ mi
13. 192 yd = \_\_\_\_\_ mi
14. 148 gal = \_\_\_\_\_ fl oz
15. 144 mi = \_\_\_\_\_ ft
16. 140 c = \_\_\_\_\_ gal
17. 121 qt = \_\_\_\_\_ gal
18. 20 in = \_\_\_\_\_ ft



## Metric unit conversions - mixed (mass, length and capacity)

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### Grade 5 Measurement Worksheet

Convert to the units shown.

1. 494 L = \_\_\_\_\_ mL
2. 2.07 L = \_\_\_\_\_ mL
3. 7.3 L = \_\_\_\_\_ mL
4. 20.6 L = \_\_\_\_\_ mL
5. 97.6 L = \_\_\_\_\_ mL
6. 0.70 L = \_\_\_\_\_ mL
7. 8.3 L = \_\_\_\_\_ mL
8. 39.2 kg = \_\_\_\_\_ g
9. 935 kg = \_\_\_\_\_ g
10. 45.8 L = \_\_\_\_\_ mL
11. 1,667 mL = \_\_\_\_\_ L
12. 18,924 g = \_\_\_\_\_ kg
13. 39,523 g = \_\_\_\_\_ kg
14. 39,917 mm = \_\_\_\_\_ cm
15. 28,737 mL = \_\_\_\_\_ L
16. 3,234 mm = \_\_\_\_\_ cm
17. 18,941 g = \_\_\_\_\_ kg
18. 21,251 mm = \_\_\_\_\_ cm
19. 5,786 mL = \_\_\_\_\_ L
20. 38,464 mL = \_\_\_\_\_ L

## Grade 5 Math Word Problems Worksheet

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Read and answer each question. Show your work!

### Mixed Practice #9

1. Mrs. Hilt had \$4,000 in her savings account. She earned 10% interest each year. If she left that money in the account for one year, how much will she have in the account at the end of that year?
2. Mrs. Hilt baked 7 dozen cookies and sold them for \$4.25 per half-dozen. How much money would Mrs. Hilt make if she sold all of the cookies?
3. Mrs. Hilt bought 15 boxes of citrus fruits from a fundraiser. She paid \$12 for each box. If 6% sales tax was added to the total cost, how much was her total bill?
4. Mrs. Hilt noticed two rides were 32 feet apart. How many yards is that?
5. Mrs. Hilt will buy a new pair of shoes in 11 days. How many minutes must she wait before she can buy her new pair of shoes?

