Summer Math
2016
for students who will be taking Math 6

This packet is designed to cover some of the major concepts learned in 5th grade math this past year. Please work on these handouts over the summer, in an effort to continue practicing math. We hope that you do a little at a time instead of doing the packet all at once.

If you'd like to continue to practice your math skills over the summer, check out these websites:

www.math-drills.com
www.ixl.com
www.thatquiz.org
www.math.com

Name _____

Comparing and Ordering Decimals

Write $<$, $>$, or $=$ in each ◯.

1. 0.467 ◯ 0.465 **2.** 3.5 ◯ 3.50 **3.** 4.07 ◯ 4.70

4. 2.06 ◯ 2.3 **5.** 0.61 ◯ 0.59 **6.** 0.49 ◯ 0.9

7. 38.4 ◯ 3.84 **8.** 7 ◯ 6.98 **9.** 2.7 ◯ 2.69

10. 0.320 ◯ 0.32 **11.** 0.99 ◯ 1.00 **12.** 9.8 ◯ 8.9

Write the number or numbers from the box that are:

0.04	3.507
0.012	3.45
3.72	2.98
0.25	1.10
0.027	2.46
2.55	0.02

16. less than 0.025 _____

17. greater than 3.5 _____

18. greater than 0.125 and less than 1.125 _____

19. between 2.5 and 3 _____

Name _____

Multiplying Decimals

Multiply. show your work!

1. 5.3 × 0.5

2. 3.51 × 0.4

3. 0.68 × 5

4. 2.15 × 6

5. 5.2 × 1.6

6. 0.35 × 4.2

7. 1.08 × 26

8. 8.3 × 0.52

9. 18 × 0.03

10. 2.07 × 5

11. 3.68 × 0.4

Write the decimal point in the correct place for the given product.

12. 37.4 × 2.5 = 9350

13. 0.5 × 0.7 = 035

14. 2.4 × 0.3 = 072

15. 3.9 × 0.01 = 0039

16. Find the product of 3.06 and 2.7.

17. If the factors are 4.7 and 12, what is the correct product?

Name _____

Dividing Decimals

Divide.

1. $5\overline{)7.25}$ **2.** $6\overline{)1.872}$ **3.** $3\overline{)15.48}$ **4.** $8\overline{)51.2}$

5. $9\overline{)287.1}$ **6.** $4\overline{)12.44}$ **7.** $2\overline{)1.108}$ **8.** $5\overline{)123.0}$

Use mental math to find each quotient.

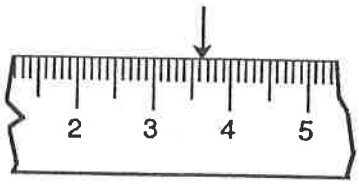
9. 45.05 ÷ 5 _____ **10.** 3.6 ÷ 6 _____ **11.** 14.63 ÷ 7 _____

Name _____

Centimeters and Millimeters

Use both centimeter and millimeter units to write the length shown.

1.



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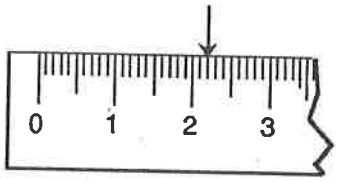

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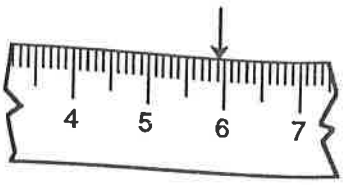
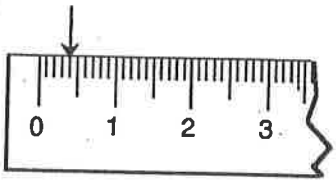


Ex: 3.6 cm = 36 mm

_____ _____

4.



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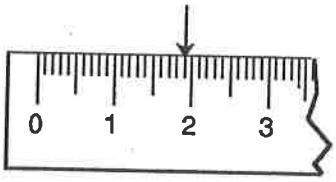

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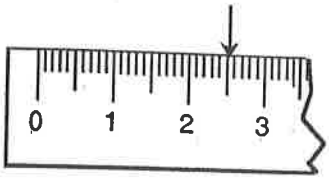
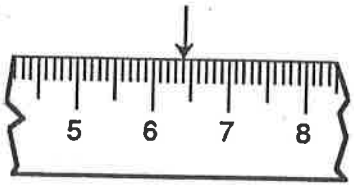


_____ _____ _____

Write each measurement two ways. First use only centimeters. Then use only millimeters.

7.



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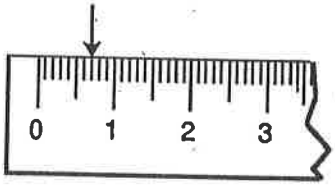

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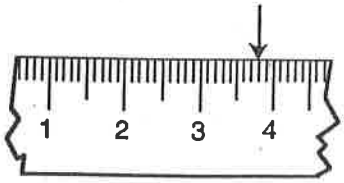
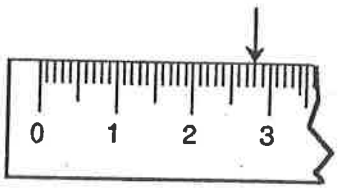


Ex. 6.4 cm = 64 mm

_____ _____ _____

10.



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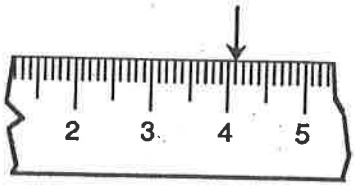

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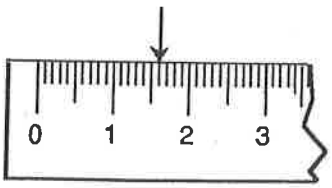


_____ _____ _____

Name _____

Lowest-Terms Fractions

Tell whether the fraction is in lowest terms. Write **yes** or **no.**

1. $\frac{3}{15}$ _____ **2.** $\frac{2}{7}$ _____ **3.** $\frac{9}{16}$ _____

4. $\frac{8}{32}$ _____ **5.** $\frac{25}{35}$ _____ **6.** $\frac{10}{13}$ _____

Reduce to lowest terms when not already in lowest terms.

7. $\frac{16}{72}$ _____ 8. $\frac{6}{35}$ _____ 9. $\frac{9}{30}$ _____

10. $\frac{3}{18}$ _____ 11. $\frac{8}{21}$ _____ 12. $\frac{34}{50}$ _____

13. $\frac{12}{25}$ _____ 14. $\frac{9}{24}$ _____ 15. $\frac{13}{20}$ _____

16. $\frac{18}{27}$ _____ 17. $\frac{40}{100}$ _____ 18. $\frac{24}{42}$ _____

Name _____

Greatest Common Factor

Find the greatest common factor.

1. List the factors of 18. Ex: 1, 2, 3, 6, 9, 18

2. List the factors of 24. _____

3. List the common factors of 18 and 24. _____

4. Give the greatest common factor of 18 and 24. _____

5. List the factors of 12. _____

6. List the factors of 20. _____

7. List the common factors of 12 and 20. _____

8. Give the greatest common factor of 12 and 20. _____

List the factors of each number. Ring the greatest common factor or each pair.

9. 8 _____

28 _____

10. 20 _____

16 _____

11. 21 _____

15 _____

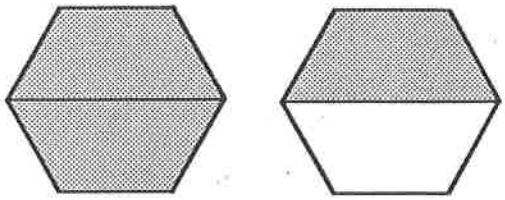
12. 11 _____

26 _____

Name _____

Improper Fractions and Mixed Numbers: Using Manipulatives

Write the improper fraction and mixed number for the colored part of each picture.

1. 

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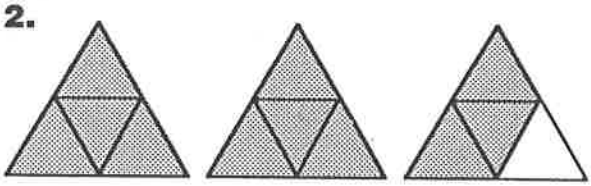
2. 

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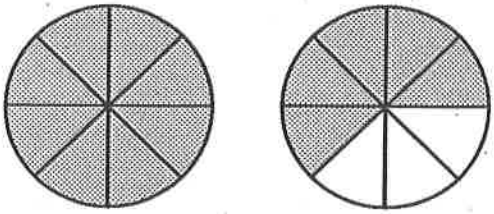
3. 

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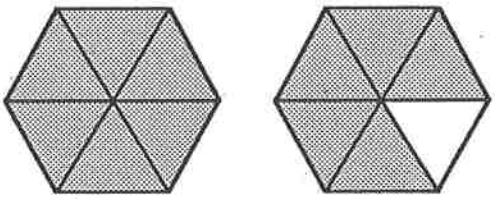
4. 

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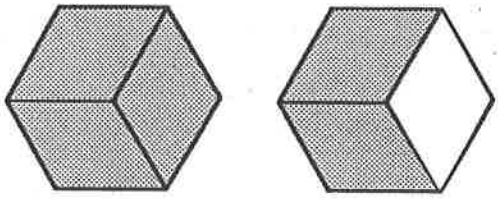
5. 

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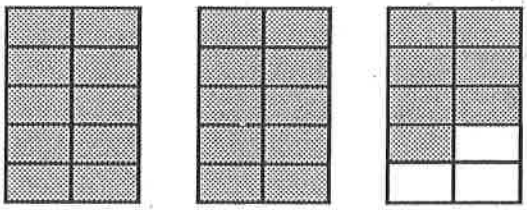
6. 

_____ _____

Write each as an improper fraction.

7. $4\frac{1}{2}$ _____ **8.** $2\frac{1}{3}$ _____ **9.** $1\frac{4}{5}$ _____ **10.** $3\frac{3}{4}$ _____

Write each as a mixed number. Divide!

11. $\frac{14}{3}$ _____ **12.** $\frac{9}{4}$ _____ **13.** $\frac{8}{5}$ _____ **14.** $\frac{7}{4}$ _____

Name _____

Adding and Subtracting Fractions: Unlike Denominators

Add or subtract. Reduce answers to lowest terms.

Ex. **1.** $\frac{2\times2}{3\times2} = \frac{4}{6}$

$+\frac{1}{6} \quad + \frac{1}{6}$

$\frac{5}{6}$

2. $\frac{5}{6}$

$-\frac{1}{3}$

3. $\frac{1}{12}$

$+\frac{3}{4}$

4. $\frac{4}{15}$

$+\frac{7}{30}$

5. $\frac{3}{5}$

$-\frac{2}{15}$

6. $\frac{1}{6}$

$+\frac{3}{5}$

7. $\frac{5}{6}$

$-\frac{1}{8}$

8. $\frac{13}{14}$

$-\frac{5}{6}$

9. $\frac{1}{6}$

$+\frac{3}{8}$

10. $\frac{7}{10}$

$+\frac{3}{5}$

11. $\frac{7}{12}$

$-\frac{1}{4}$

12. $\frac{1}{2}$

$-\frac{1}{10}$

13. What is the sum of $\frac{5}{12}$ and $\frac{1}{4}$?

14. What is $\frac{3}{8}$ less than $\frac{1}{2}$?

Name _____

Understanding the Question

Write an open sentence to solve the problem and state the answer, with units! Show your work on separate paper

1. The Tasty Tea Company produced 6,792 tea bags one day. If they put 24 tea bags in each box, how many boxes do they need?

Ex: $6,792 \div 24 = x$

283 boxes

2. A carton of tea bags contains 12 boxes. If there are 24 tea bags in a box, how many tea bags are there in a carton?

3. One truck has 854 cartons of tea to deliver. Another has 783 cartons. How many cartons are to be delivered in all?

4. One day the Tasty Tea Company boxed 524 boxes of cinnamon tea and 329 boxes of lemon tea. How many more boxes of cinnamon tea were there?

5. There are 2,772 boxes of tea ready to be put in cartons. If there are 12 boxes in a carton, how many cartons are needed?

6. There are 1,524 cartons of tea in the warehouse. If the Tasty Tea Company fills an order for 700 cartons of tea, how many cartons will be left?

7. 12 stores ordered a total of 6,300 boxes of tea. If each store ordered the same number of boxes, how many boxes does each receive?

8. Each Tasty Tea delivery truck can hold 948 cartons of tea. How many cartons can 8 trucks hold?

9. Two delivery trucks were 1,000 miles apart. To meet, each truck drove 300 miles toward the other. How far apart were the two trucks then?

10. A Tasty Tea delivery truck made a trip to a city 130 miles away. If it returned by the same route, how far did it travel in all?