

MAY 17, 2018

5TH GRADE HOMEWORK

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DUE DATE : MAY 24, 2018

**NOTE : *For Language Homework***  
***Worksheets will be given on Thursday, May 17th***

57h  
5/24

Name \_\_\_\_\_

Date \_\_\_\_\_

## Relating Fractions, Decimals, and Percents

Complete the table with equivalent fractions, decimals, and percents.

Then match each letter to its answer on the blanks below. Not all letters are used.

	Fraction	Decimal	Percent
1.	$\frac{1}{50}$	.02 = S	= Y
2.	= N	= E	3%
3.	= N	0.12	= E
4.	$\frac{3}{8}$	= E	= E
5.	= C	0.35	= U
6.	= R	0.45	= N
7.	= P	= T	50%
8.	$\frac{18}{25}$	= T	= N
9.	= I	= A	90%
10.	= N	1.0	100%

This means "almost perfect."

\_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_  
 1     $\frac{9}{10}$      $\frac{3}{25}$     37.5%    0.50    2%    \_\_\_\_\_    45%     $\frac{9}{10}$      $\frac{3}{100}$     0.375  
 \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_  
 $\frac{1}{2}$     12%     $\frac{9}{20}$      $\frac{7}{20}$     0.03    72%    0.72

### Solve the problem.

11. At Wasatch Middle School,  $\frac{1}{3}$  of the students are in sixth grade, 35% are in seventh grade, and the rest are in eighth grade.
- Which grade has the greatest number of students?
  - Which grade has the fewest number of students?

Name \_\_\_\_\_

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5th

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## Percents: Finding the Percent of a Number

Here are two methods you can use to find the percent of a number:

Find **20%** of **130**.

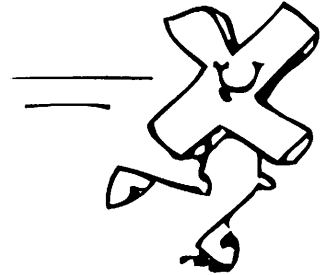
Multiply by an equivalent fraction.

$$\begin{aligned} 20\% \text{ of } 130 &= 20\% \times 130 \\ &= \frac{20}{100} \times 130 \\ &= \frac{1}{5} \times 130 \\ &= 26 \end{aligned}$$

Find **4%** of **25**.

Multiply by an equivalent decimal.

$$\begin{aligned} 4\% \text{ of } 25 &= 4\% \times 25 \\ &= 0.04 \times 25 \\ &= 0.04 \\ &\quad \times 25 \\ &= 1.00 \text{ or } 1 \end{aligned}$$



Solve using either method.

- 3% of 10 =                      4% of 30 =                      16% of 80 =                      15% of 60 =
- 18% of 36 =                      6% of 80 =                      9% of 90 =                      11% of 44 =
- 8% of 68 =                      9% of 75 =                      62% of 62 =                      44% of 76 =
- 4% of 400 =                      3% of 200 =                      37% of 51 =                      28% of 43 =
- 1% of 246 =                      5% of 286 =                      60% of 300 =                      40% of 125 =
- 120% of 30 =                      150% of 40 =                      125% of 400 =                      108% of 250 =

## Professional Sports

Solve each problem.

The NBA keeps statistics on points scored per game. Here is a list of the top 5 scorers in NBA history.

Player	Average Points per Game
Michael Jordan	31.1
Wilt Chamberlain	30.1
Shaquille O' Neal	27.4
Elgin Baylor	27.4
Jerry West	27.0

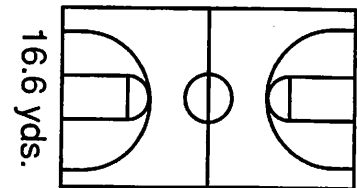
1. What is the **range** of these scores?



This means, "What is the difference between the highest and lowest average scores?"

2. Based on their averages, about how many points could these five players score in a game?

3. A professional basketball court is a rectangle that is 31.3 yards long and 16.6 yards wide. What is the perimeter of the court? What is the area of the entire basketball court?



Perimeter = \_\_\_\_\_ yards

Area = \_\_\_\_\_ square yards

31.3 yds.

4. A football field is 100 yards long and 60 yards wide. Use mental math to find the perimeter and area of a football field.

Perimeter = \_\_\_\_\_ yards

Area = \_\_\_\_\_ square yards

5. What is the difference in area between the football field and the basketball court?

6. The National Hockey League awards the Stanley Cup to the league's top team each year. This table shows the teams with the most Stanley Cup wins. Find the mean, median, and mode of this data.

Team	Number of Stanley Cups Won
Montreal Canadiens	24
Toronto Maple Leafs	11
Detroit Red Wings	10
Boston Bruins	5
Edmonton Oilers	5



Mean \_\_\_\_\_ Median \_\_\_\_\_ Mode \_\_\_\_\_

7. The Indianapolis 500 is held on a  $2\frac{1}{2}$  mile oval track. To win the Indy 500, the driver must be the first to complete 500 miles around the track in his car. How many times do the cars need to circle the track to complete 500 miles?