

Fractions/ Decimals/ Percentages			
Fraction	Reduced Fraction	Decimal	Percent
25/100			
		0.5	
			75%
80/100			
			34%
22.2/100			
		0.72	
			44.4%
	1/5		
Extra Practice			
33.1/100			
	1/10		
			60%
	2/10		

Fractions/ Decimals/ Percentages			
Grade	frequency	Total frequency /50	Degrees of circle
A	8	$8/50=0.16$	$0.16 \times 360=57.6$
B	21		
C	12		
D	5		
E	4		

### Word Problems

1. Which of the following has the greatest value?

- A) 50% of 10
- B) 40% of 20
- C) 30% of 30
- D) 20% of 40
- E) 10% of 50

2.

Which of these is the smallest?

$$\frac{2+3}{4+6}$$

$$\frac{2 \div 3}{4 \div 6}$$

$$\frac{23}{46}$$

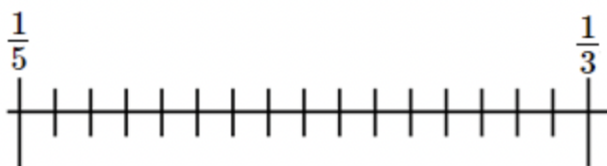
$$\frac{2-3}{4-6}$$

$$\frac{2 \times 3}{4 \times 6}$$

3.

The fractions  $\frac{1}{3}$  and  $\frac{1}{5}$  have been placed on the number-line shown.

At which position should the fraction  $\frac{1}{4}$  be placed?



4.

In a university admissions test, Dean gets exactly 10 of the first 15 questions correct.

He then answers all the remaining questions correctly.

Dean finds out he has answered 80% of all the questions correctly.

How many questions are there on the test?

5.

After playing 500 games, my success rate at Solitaire is 49%

Assuming I win every game from now on, how many extra games do I need to play in order to increase my success rate to 50% ?

6.

The Juice Drink company decides to mix leftover juice drinks to make a new drink.

They have 450 litres of pineapple drink, which is 42% juice.

They mix it with 630 litres of orange drink.

The new drink is 35% juice.

What percentage of the orange drink was juice?

7.

One third of the animals in Jacob's flock are goats, the rest are sheep.

There are twelve more sheep than goats.

How many animals are there altogether in Jacob's flock?

8.

Tommy's tankard holds

480ml

when it is one quarter empty.

How much does it hold when it is one quarter full?

9.

Mr. Jones finished correcting 98% of that week's homework assignments.  
Miss Smith finished correcting

$$\frac{2}{5}$$

Of that week's homework assignments. Which teacher corrected a greater Percentage of her homework assignments?

10.

Lucas ate  $\frac{5}{6}$  of his skittles. What percentage of his skittles were eaten?

450 litres- 42%

450 + 630 = 1080 35%