



1. Which of the following terms is expressed in scientific notation?

- A. 3.4×5^2
- B. 0.2×10^{-2}
- C. 4.7×10^2
- D. 7×10^5

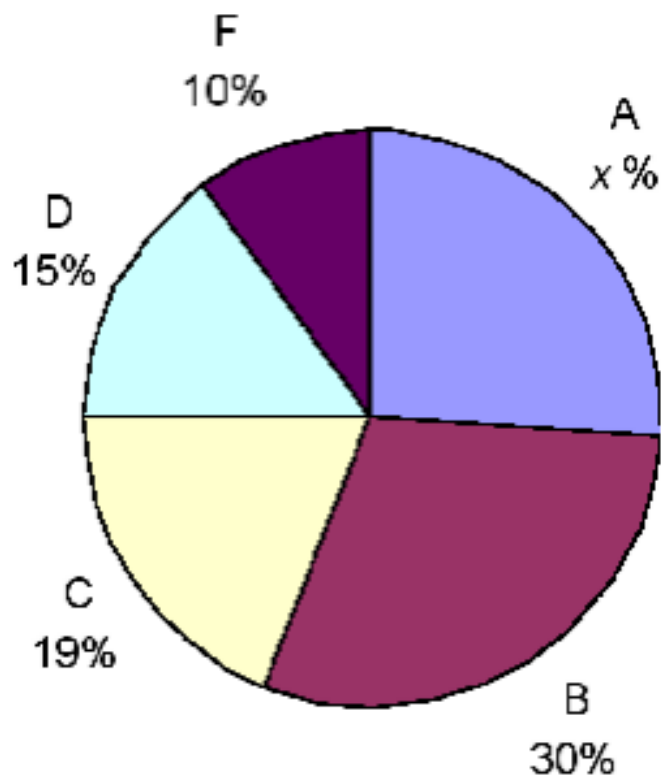
2. The probability that Trista's softball team will win is 0.63. What is the probability that her team will not win?

- A. 0.37
- B. 0.55
- C. 0.63
- D. 0.75

3. Which of these is equivalent to 2^{-2} ?

- A. $\frac{1}{4}$
- B. 0
- C. 1
- D. 4

4. The grade distribution for Mr. Limburg's math exam is shown in the graph below. If 200 students took the test, how many earned a grade of A?



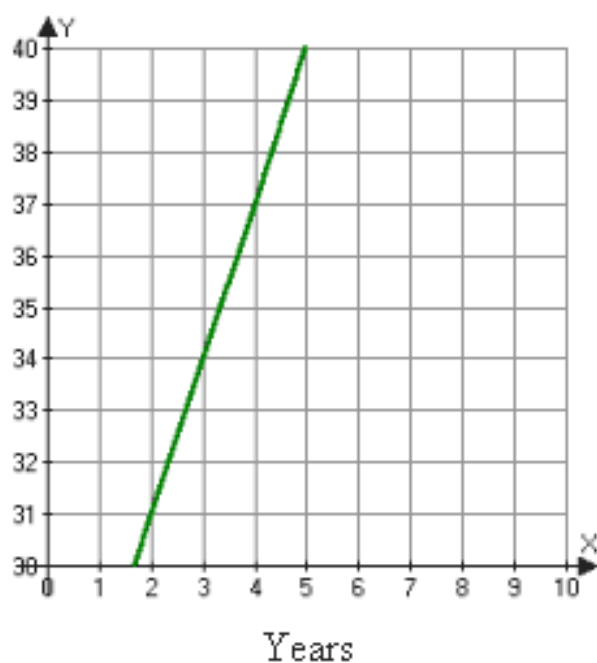
- A. 26 students
- B. 52 students
- C. 60 students
- D. 120 students

5. What is the probability that a number selected at random from the set of numbers below will be the mean of the set?

1, 2, 2, 2, 3, 3, 4, 4, 4, 5

- F. 0
- G. $\frac{1}{10}$
- H. $\frac{1}{5}$
- I. $\frac{3}{10}$

6. Use the graph below to determine the rate of change of a girl's height over the time period shown.

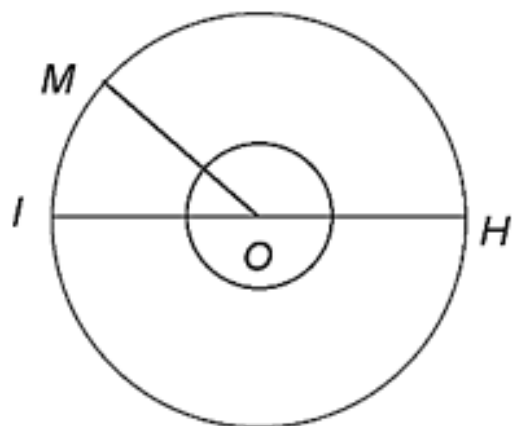


- A. 2 inches per year
- B. 2.5 inches per year
- C. 3 inches per year
- D. 3.5 inches per year

7. Given the standard form of the line $4x + y = 6$, determine the slope.

- A. $m = -4$
- B. $m = -2$
- C. $m = 4$
- D. $m = 6$

8. Point O is the center of the circle and the measure of angle $HOM = 135^\circ$. What is the measure of angle MOI ?



- A. 45°
- B. 55°
- C. 135°
- D. 180°

9. Sandra sells baseball caps at the high school concession stand. She has 100 of last year's caps and 300 of this year's caps. Sandra knows that her customer's will pay \$7 more for this year's cap than last year's cap. She has calculated that she needs to make \$5300. Assuming that she will sell all of the caps, how much should she charge for this year's cap?

- A. \$20
- B. \$17
- C. \$15
- D. \$8

10. Emily spent \$33 for her haircut. This total included a \$3 tip. What percent of the total was the tip?

- A. 1%
- B. 3%
- C. 10%
- D. 30%

Answer Key for problems 1-10

1	C
2	A
3	A
4	B
5	h
6	C
7	A
8	A
9	C
10	C