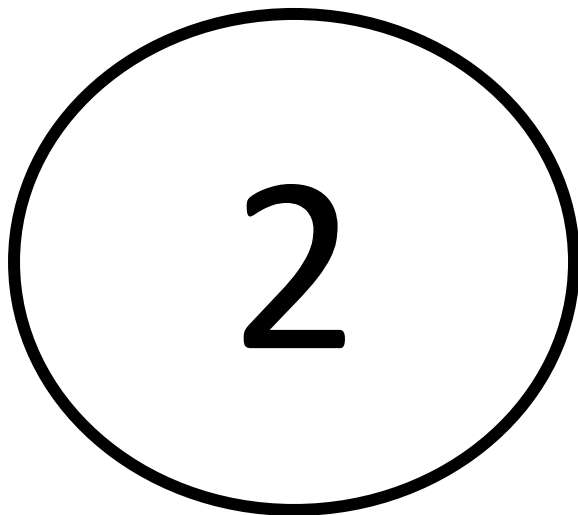# 1

The city of Arachna has a spider population that has been doubling every two years. If there are about 100,000 spiders this year, how many will there be 4 years from now?
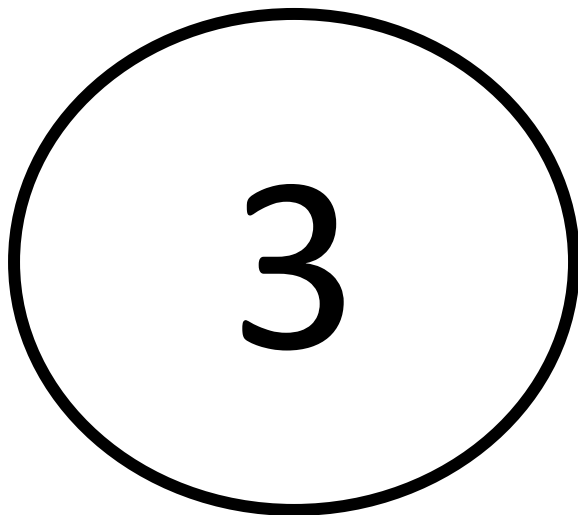
A)   100,000 spiders   Go to 7
B)   1,600,000 spiders   Go to 6
C)   800,000 spiders   Go to 10
D)   400,000 spiders   Go to 4

2

The angles of a triangle measure $x°$, $2x°$, and $6x°$. Solve for x.

A) 180°   Go to 7
B) 20°   Go to 10
C) 40°   Go to 4
D) 80°   Go to 8

3

The Jones family has twice as many tomato plants as pepper plants. If there are 21 plants in their garden, how many plants are tomato plants? Write an equation to represent this scenario and solve.

A) $2p + p = 21$; 14 tomato plants   Go to 9
B) $2p = 21$; 7 tomato plants   Go to 2
C) $2p + p = 21$; 7 tomato plants   Go to 4
D) $2p = 21$; 14 tomato plants   Go to 8

4

Solve for x. $\frac{x+5}{3} + 2 = -4$

A) x = − 19   Go to 5

B) x = − 23   Go to 7

C) x = − 29   Go to 2

D) x = 17   Go to 1

5

How many terms are in the expression:
(simplify if necessary)

$$6x^5 - 5x^2 + 4y - 3z + 2$$

A)   11   Go to 2

B)   4   Go to 10

C)   3   Go to 9

D)   5   Go to 3

6

Solve the equation $v = gt^2$ for g
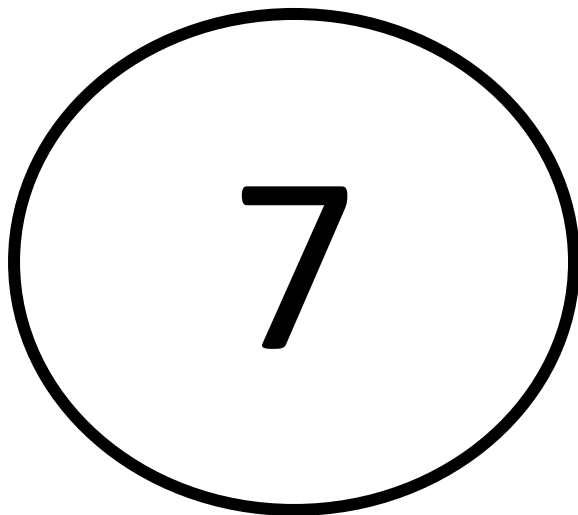
A) $g = \dfrac{t^2}{v}$

B) $g = vt^2$
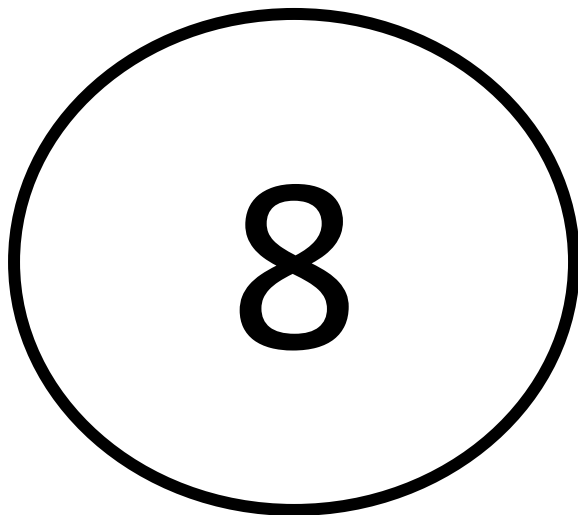
C) $g = \dfrac{v}{t^2}$

D) $g = v - t^2$

7

A gym membership to LA Fitness has a $100 start up fee and then costs $30 per month. Write an equation that represents the cost per month for LA Fitness.

A) $C = 30x - 100$ Go to 5
B) $C = 30x + 100$ Go to 8
C) $C = -30x + 100$ Go to 2
D) $C = 100x + 30$ Go to 4

8
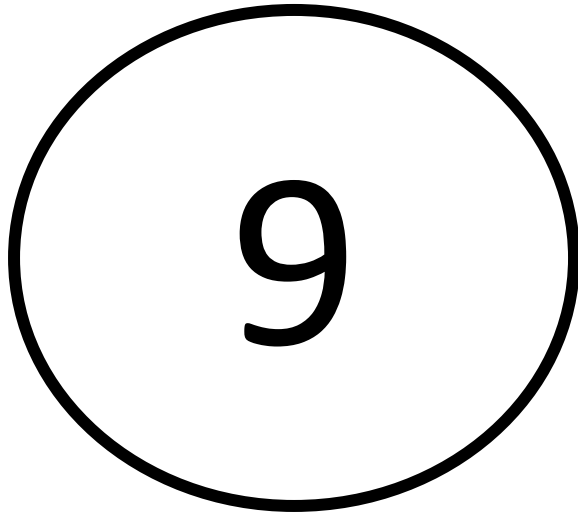
The formula to change Fahrenheit to Celsius is

$F = \dfrac{5}{9}F - 32$. What is the coefficient in the equation?

A) -32 Go to 3
B)   F   Go to 9
C)   32   Go to 7
D) $\dfrac{5}{9}$ Go to 2

9

Convert 426 cm per 6 hours to meters per minutes.

A)   11.83 m/min   Go to 4
B)   .0118 m/min   Go to 1
C)   42.6 m/min   Go to 6
D)   4.26 m/min   Go to 7

10

Solve the inequality $6 - 2x > 8 - x$

A)	$x > -2$	Go to 3
B)	$x < 2$	Go to 9
C)	$x < -2$	Go to 6
D)	$x > 2$	Go to 5

Name _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Name _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Answers

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