



Objective 2 TEKS 6.4.A Practice

1. The world's fastest caterpillar is the Mother-of-Pearl. The table shows the time and distance that one of these caterpillars can travel.

Time, x (sec)	Distance, y (in.)
2	30
3	45
4	60
5	90

Which expression best represents the distance in terms of time?

- A** $y - 15$ **B** $y + 15$
C $x + 15$ **D** $15x$
2. The table shows Sarah's age and Jose's age over four years.

Sarah's Age, x	Jose's Age, y
11	6
12	7
13	8
14	9

Which expression best represents Jose's age in terms of Sarah's age?

- F** $x - 5$ **G** $5y$
H $x + 5$ **J** $y - 5$
3. Latisha is planning snacks for 46 people. She will pop popcorn. A 32-ounce bag of popcorn kernels produces 27 servings. Which proportion can be used to find x , the number of ounces of kernels Latisha will need?

- A** $\frac{27}{32} = \frac{x}{46}$ **B** $\frac{27}{x} = \frac{46}{32}$
C $\frac{x}{27} = \frac{32}{46}$ **D** $\frac{27}{32} = \frac{46}{x}$

4. Which expression best represents the y values in terms of the x values?

x	12	14	16	18	20
y	6	7	8	9	10

- F** $y - 2$ **G** $x - 2$
H $x \div 2$ **J** $y \div 2$
5. The world's fastest growing plant is the bamboo. The table shows the age of a bamboo and its height.

Age, d (days)	Height, h (ft)
1	3
3	9
6	18
9	27

Which expression best represents the height of a bamboo in terms of age?

- A** $d + 3$ **B** $3d$
C $3 - d$ **D** $d - 3$
6. Justin saves spare coins in a jar to use to buy DVDs. There are 2 quarters in the jar for every 5 dimes. There are 25 dimes in the jar. Which proportion can be used to find q , the number of quarters in the jar?
- F** $\frac{5}{2} = \frac{q}{25}$ **G** $\frac{25}{2} = \frac{q}{5}$
H $\frac{2}{5} = \frac{q}{25}$ **J** $\frac{2}{10} = \frac{q}{25}$
7. Which expression best represents the y values in terms of the x values?

x	2	3	4	5	6
y	26	39	52	65	78

- A** $x + 13$ **B** $x \times 13$
C $y - 13$ **D** $x \div 13$
- 6.4.A** When you finish this page, you can check off a box on your TEKS Tracker, page 21.



Objective 2 TEKS 6.4.B Practice

1. Mei is making a square pen for her guinea pig. She wants as large a pen as will fit in her room. She can buy lengths of boards to use as sides as shown in the table below.

Length of side, s (ft)	Area, A (ft ²)
3	9
4	16
5	25
6	36
s	?

Which formula can Mei use to find the area A of a square with a length of a side s ?

- A** $A = 3s$ **B** $A = s \div 3$
C $A = s + 6$ **D** $A = s^2$

2. The table below shows the areas of triangles where the base of the triangle stays the same but the height changes.

Height, h (units)	Area, A (units ²)
2	8
4	16
6	24
8	32
h	?

Which formula can be used to find the area A of a triangle with the same base and a height h ?

- F** $A = \frac{h}{2}$ **G** $A = 2h$
H $A = 4h$ **J** $A = \frac{h^2}{2}$

3. A box factory makes the same kind of boxes in different heights, as shown in the table below.

Height, h (units)	Volume, V (units ³)
1	6
2	8
3	18
4	24
h	?

Which formula can be used to find the volume V of this kind of boxes with a height h ?

- A** $V = 6h$ **B** $V = 4h$
C $V = 3h$ **D** $V = 2h$

4. Jacy measured the radius of a few different cans as shown in the table below.

Radius, r (units)	Circumference, C (units)
2	12.56
3	18.84
4	25.12
5	31.40
r	?

Which formula can he use to find the circumference C with radius r ?

- F** $C = 3.14r^2$ **G** $C = 6.28r$
H $C = 3.14 + 2r$ **J** $C = 2r - 3.14$

- 6.4.B** When you finish this page, you can check off a box on your TEKS Tracker, page 21.