#### **11 Word Problems**

# Use the TI30XS calculator! Answers on the last page – don't cheat!



health	nsurance plan for a family of 6 costs \$3000 per year, and it covers 100% of any preventive charges. If 4 of the family members had \$800 in expenses and 2 of the family members 50 in expenses, how much did the family save by buying the plan?
A.	\$1500
В.	\$1700
C.	\$1900
D.	\$2100
2. If yo need?	u want to cut 24 two-foot cubes, how many 12-foot boards (like the one below) will you
A.	2
В.	4
C.	6
D.	12
	can drive 180 miles in 3 hours. On Friday, you drove for 7 hours at that rate. How many lid you drive on Friday?
A.	1260
В.	600
C.	420
D.	60
	re are 3 weights: 0.581 grams, 0.0643 grams, and 0.6 grams. List the weights in order reatest to least.
A.	0.6 grams, 0.581, 0.0643
В.	0.6, 0.0643, 0.581
C.	0.0643, 0.581, 0.6



D. 0.581, 0.6, 0.0643

- 5. How much longer is  $4\frac{1}{16}$  than  $1\frac{3}{8}$ ?
  - A.  $\frac{5}{8}$
  - B.  $2\frac{1}{16}$
  - C.  $2\frac{11}{16}$
  - D.  $2\frac{3}{8}$
- 6. You cut two pieces, each 3  $\frac{3}{4}$  from a 12-foot piece of wood. How long, in feet, is the remaining piece?
  - A.  $1\frac{5}{8}$
  - B.  $4\frac{1}{2}$
  - C.  $9\frac{3}{4}$
  - D.  $2\frac{1}{2}$
- 7. You drove 165 miles in 2.5 hours. Which of the expressions below could be used to find out how many miles you can drive in 8 hours?
  - A.  $2.5 \times 8 \div 165$
  - B. 165 x 8 ÷ 2.5
  - C. 165 x 8 x 2.5
  - D. 165 ÷ 8 x 2.5
- 8. The scale on a map reads "2cm=125 km." How many kilometers would be represented by 4.8 centimeters?
  - A. 300
  - B. 345
  - C. 600
  - D. 1200



9. In Phoenix, the temperature at 9am was 92°F. Then, over the next hour the following changes happened: +2°F, - 5°F, +6°F, -1°F, +8°F, +9°F. What was the temperature in degrees Fahrenheit at the end of the hour?

- A. 92°F
- B. 96°F
- C. 101°F
- D. 111°F

### **BRAIN TEASERS**

This is a multiplication box. Each cell represents the horizontal number times the vertical number. For example, the 20 in the right corner equals 5 x 4.

	$a^2$	ab	5
а			ab
С	8b		
4		40	20

10. Which of the following is equal to a?

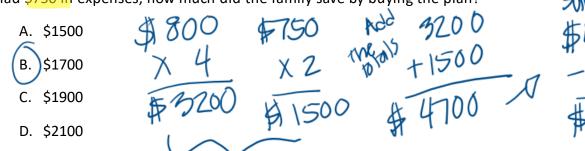
- Δ
- B. 4
- C. 5
- D. 10

11. Which of the following is equal to  $a^2c$ ?

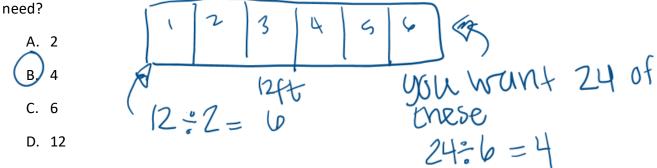
- A. 13
- B. 40
- C. 60
- D. 42

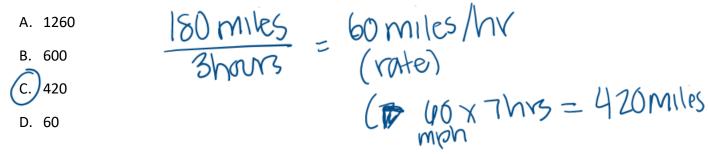
## **ANSWERS**

1. An insurance plan for a family of 6 costs \$3000 per year, and it covers 100% of any preventive health charges. If 4 of the family members had \$800 in expenses and 2 of the family members had \$750 in expenses, how much did the family save by buying the plan?



2. If you want to cut 24 two-foot cubes, how many 12-foot boards (like the one below) will you





4. There are 3 weights: 0.581 grams, 0.0643 grams, and 0.6 grams. List the weights in order from greatest to least.

Tuke to turn these into percents %

A. 0.6, 0.581, 0.0643

B. 0.6, 0.0643, 0.581

C. 0.0643, 0.581, 0.6

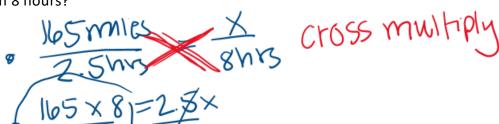
D. 0.581, 0.6, 0.0643

- 5. How much longer is  $4\frac{1}{16}$  than  $1\frac{3}{8}$ ? Use ymy columbator  $\frac{1}{16}$ 
  - A.  $\frac{5}{8}$
  - B.  $2\frac{1}{16}$

  - D.  $2\frac{3}{8}$
- 6. You cut two pieces, each 3  $\frac{3}{4}$  from a 12-foot piece of wood. How long, in feet, is the remaining piece?



- C.  $9\frac{3}{4}$
- D.  $2\frac{1}{2}$
- 33×2=7= 12-7==4= USE JOUN TON
- 7. You drove 165 miles in 2.5 hours. Which of the expressions below could be used to find out how many miles you can drive in 8 hours?
  - A. 2.5 x 8 ÷ 165
  - B. 1/65 x 8 ÷ 2.5
  - C. 165 x 8 x 2.5
  - D.  $165 \div 8 \times 2.5$



- 8. The scale on a map reads "2cm=125 km." How many kilometers would be represented by 4.8 centimeters?



- B. 345
- C. 600
- D. 1200



- X = 125(4.8) X = 300
- $\frac{4.8}{4.8}$  cross mu

9. In Phoenix, the temperature at 9am was 92°F. Then, over the next hour the following changes happened: +2°F, -5°F, +6°F, -1°F, +8°F, +9°F. What was the temperature in degrees Fahrenheit at the end of the hour?

A. 92°F

B. 96°F

- 45e your calculator 92+2-5+6-1+8+9=
- C. 101°F
- D. 111°F

#### **BRAIN TEASERS**

This is a multiplication box. Each cell represents the horizontal number times the vertical number. For example, the 20 in the right corner equals 5 x 4.

	$a^2$	ab  O	5
a 2			ab
С	8b		
4		40	20

10. Which of the following is equal to a?

- - D. 10

Focus on the 40 np 4/x ab = 40 ab = 10 - 1f ab = 10 and the ab box is under the 45then a=2

- 11. Which of the following is equal to  $a^2c$ ?

  - D. 42

a<sup>2</sup>C= 86 WP From the premous question we know a= 2 and b=5 50 8b is 8(5) which = 40

