1. On his timed typing test, Ned typed 125 words in 5 minutes. Which proportion could be used to find out how long it will take him to type his 500-word history essay if he types at this same rate?

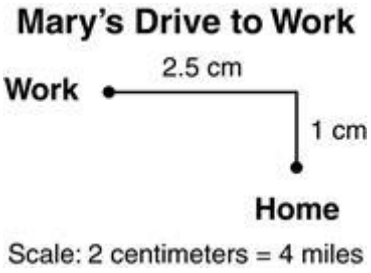
A $\frac{125}{5} = \frac{x}{500}$

B $\frac{5}{500} = \frac{x}{125}$

C $\frac{x}{5} = \frac{125}{500}$

D $\frac{5}{125} = \frac{x}{500}$

2. A map uses a scale of 2 centimeters = 4 miles. Mary's drive to work is represented on the map as traveling 1 centimeter north, then 2.5 centimeters west.



Which proportion could be used to determine the number of miles Mary drives to work?

A $\frac{x}{2} = \frac{1}{3.5}$

B $\frac{x}{4} = \frac{2}{3.5}$

C $\frac{2}{4} = \frac{3.5}{x}$

D $\frac{1}{2} = \frac{x}{3.5}$

3. Taryn used 2 cups of salt to make 4 cups of homemade play dough. Which proportion can be used to calculate how many cups of salt he needs to make 12 cups of play dough?

A $\frac{2}{4} = \frac{12}{s}$

B $\frac{2}{4} = \frac{s}{12}$

C $\frac{2}{12} = \frac{4}{s}$

D $\frac{4}{12} = \frac{s}{2}$

4. A machine printed 63 booklets every 6 hours. At this rate, which proportion could be used to determine x, the number of booklets that the machine can print in 9 hours?

A $\frac{63}{6} = \frac{x}{9}$

B $\frac{63}{6} = \frac{9}{x}$

C $\frac{63}{9} = \frac{x}{6}$

D $\frac{63}{9} = \frac{6}{x}$

5. Lars completed the grooming of 3 dogs in 2 hours. Which proportion can be used to determine the number of dogs Lars can groom in an 8-hour workday?

A $\frac{2}{d} = \frac{3}{8}$

B $\frac{2}{3} = \frac{8}{d}$

C $\frac{2}{3} = \frac{d}{8}$

D $\frac{3}{8} = \frac{d}{2}$

6. Fred's lawn care team has mowed 87 lawns in 29 days. If they mow the same number of lawns each day, which proportion can be used to determine the number of lawns they mow per day?

A $\frac{29}{87} = \frac{x}{1}$

B $\frac{x}{29} = \frac{1}{87}$

C $\frac{29}{87} = \frac{1}{x}$

D $\frac{29}{x} = \frac{87}{1}$

7. Kyle used 8 tokens to play a football arcade game 4 times. Which proportion can be used to determine how many tokens he will need to play the same game 10 times?

A $\frac{4}{t} = \frac{8}{10}$

B $\frac{t}{8} = \frac{4}{10}$

C $\frac{t}{10} = \frac{4}{8}$

D $\frac{t}{10} = \frac{8}{4}$

8. If $\frac{x}{y} = \frac{u}{v}$, which statement must be true?

A $xv = yu$

B $xu = yv$

C $\frac{x+u}{y+v} = \frac{u}{v}$

D $\frac{x+2}{y+2} = \frac{u+2}{v+2}$