

Name: _____	SCORE:	<input type="checkbox"/> Target Mastery (90 – 100%) <input type="checkbox"/> On Target (80 – 89%) <input type="checkbox"/> Approaching Target (70 – 79%) <input type="checkbox"/> Far Below Target (69% or ↓)
Class: _____ Date: _____		

Unit 2: Equations Mastery Quiz 4 TAKE HOME

(2-6) I can find & convert ratios & rates

(2-7) I can solve proportional equations

(2-8) I can set-up/solve equations with similar figures & indirect measure

Multiple Choice (3 Points Each)

_____ 1 Which expression can be used to change 75 kilometers per hour to meters per minute?

A $\frac{75km}{1hr} \times \frac{1km}{1000m} \times \frac{1hr}{60min}$

C $\frac{75km}{1hr} \times \frac{1000m}{1km} \times \frac{1hr}{60min}$

B $\frac{75km}{1hr} \times \frac{1km}{1000m} \times \frac{60min}{1hr}$

D $\frac{75km}{1hr} \times \frac{1000m}{1km} \times \frac{60min}{1hr}$

_____ 2 A soda container holds $5\frac{1}{2}$ gallons of soda. How many ounces of soda does this container hold?

1 quart = 32 ounces 1 gallon = 4 quarts
--

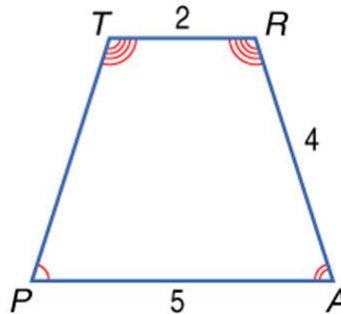
A 44

C 640

B 176

D 704

_____ 3 The two polygons are similar. Solve for b.



A 1.2

C 7.2

B 2.1

D 9.3

_____ 4 What is the solution of $\frac{k+4}{2} = \frac{k+9}{3}$

A 1

C 6

B 5

D 14

_____ 5 Solve for x: $\frac{x-3}{x+8} = \frac{3}{5}$

A $\frac{11}{2}$

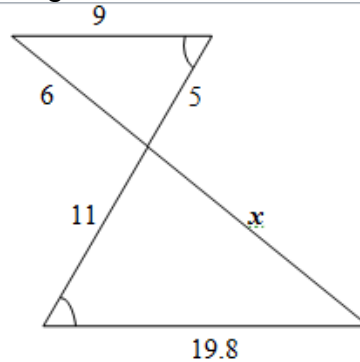
C $\frac{39}{2}$

B $\frac{39}{8}$

D $\frac{9}{2}$

Name: _____ Class: _____ Date: _____	SCORE:	<input type="checkbox"/> Target Mastery (90 – 100%) <input type="checkbox"/> On Target (80 – 89%) <input type="checkbox"/> Approaching Target (70 – 79%) <input type="checkbox"/> Far Below Target (69% or ↓)
---	--------	--

_____ 6 In the figure below. The two triangles are similar. What is the value of x ?

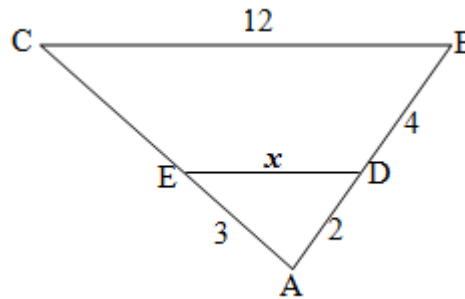


- A 12.4 C 14
B 13.2 D 18.6

_____ 7 A cell phone can receive 120 messages per minute. At this rate, how many messages can the phone receive in 150 seconds?

- A 48 C 300
B 75 D 18,000

_____ 8 Triangles ADE & ABC are similar. Find the value of \overline{ED}



- A 4 C 6
B 5 D 8

_____ 9 If the Student Council has 36 members and ratio of boys to girls is 4:5, then the number of boys on the student council is?

- A 10 C 20
B 12 D 42

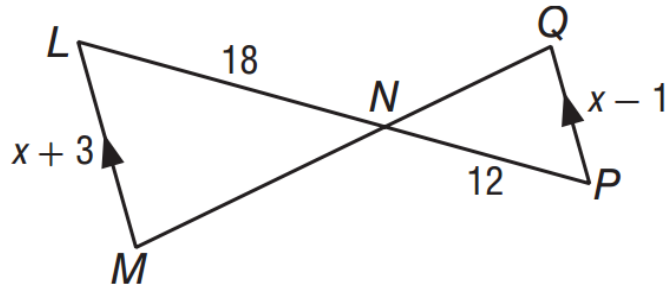
_____ 10 Solve for x : $\frac{6x-4}{2} = 3x+1$

- A $\frac{5}{3}$ C Infinitely many solutions.
B \emptyset D 1

Name: _____	SCORE:	<input type="checkbox"/> Target Mastery (90 – 100%) <input type="checkbox"/> On Target (80 – 89%) <input type="checkbox"/> Approaching Target (70 – 79%) <input type="checkbox"/> Far Below Target (69% or ↓)
Class: _____ Date: _____		

Constructed Response (20 Points)

11 Use the diagram below to answer all parts of question 11
 $\triangle LMN$ and $\triangle PQN$ are similar.



A.) Set up a proportion and solve for x (10 Points) Show all work

x = _____

B.) Find \overline{LM} . (5 Points) **Show all work.**

\overline{LM} = _____

C.) Find \overline{QP} (5 Points) **Show all work.**

\overline{QP} = _____

Name: _____	SCORE:	<input type="checkbox"/> Target Mastery (90 – 100%)
Class: _____ Date: _____		<input type="checkbox"/> On Target (80 – 89%)
		<input type="checkbox"/> Approaching Target (70 – 79%)
		<input type="checkbox"/> Far Below Target (69% or ↓)

TAKE HOME QUIZ AGREEMENT

11/22/16

Read & initial next to each statement, then print & sign your name where indicated

_____ I understand that I may not copy or distribute this exam to anyone.

_____ I understand that I must return the examination to Ms. Passarella by Wednesday 11/30/16

_____ I understand that I MUST show all work or describe my answers, even for the multiple choice (attach a separate paper if necessary) or I will not receive credit for the correct answer.

_____ I understand that I cannot copy answers from other students or seek assistance for this take home quiz.

_____ I understand that if I have another student's quiz in my possession, my score & the student's score will result in a 0%.

_____ I understand that if I work on this quiz in another class, it will result in a 0%.

_____ I understand that violation of this agreement will result in a 0% on this quiz & it cannot be replaced. It will be averaged in with my other assessments for this marking period

Print Name:

Sign Name: