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Math 7 - Chapters 11 & 12 Test Review

Short Answer

Find the area of each parallelogram. Round to the nearest tenth if necessary. Show your work.

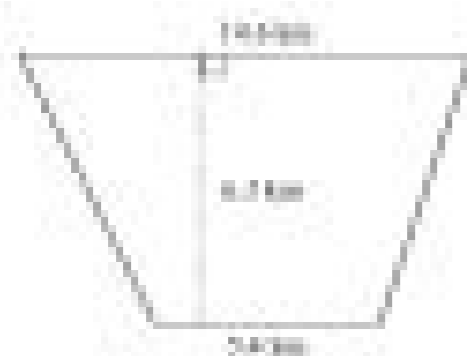
- base = 19.4 km
height = 20 km
- base = 18 yd
height = 4.2 yd

Find the area of each figure. Round to the nearest tenth if necessary. Show your work.

- triangle: base, 7.9 mm; height, 9 mm
- triangle: base, 8 km; height, 12.8 km

Find the area of each trapezoid. Round to the nearest tenth if necessary. Show your work.

5.



- trapezoid: bases, 13.1 yd and 10 yd; height, 7.1 yd

Find the area and circumference of each circle. Round to the nearest tenth. Show your work.

7.



- radius = 18 yd

Find the area of each figure to the nearest tenth. Show your work.

7. If you have 12 liters of gas at a temperature of 67°C and a pressure of 88.89 atm, what will be the pressure of the gas if you raise the temperature to 84°C and decrease the volume to 12 liters?

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2} \Rightarrow \frac{88.89 \text{ atm} \cdot 12 \text{ L}}{273 \text{ K} + 67} = \frac{P_2 \cdot 12 \text{ L}}{273 \text{ K} + 84}$$

$$P_2 = \frac{88.89 \text{ atm} \cdot 273 \text{ K} + 67}{273 \text{ K} + 84} = 88.89 \text{ atm}$$

8. I have an unknown volume of gas at a pressure of 0.5 atm and a temperature of 325 K. If I raise the pressure to 2.5 atm, decrease the temperature to 120 K, and measure the final volume to be 48 liters, what was the initial volume of the gas?

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2} \Rightarrow \frac{0.5 \text{ atm} \cdot V_1}{325 \text{ K}} = \frac{2.5 \text{ atm} \cdot 48 \text{ L}}{120 \text{ K}}$$

$$V_1 = \frac{2.5 \text{ atm} \cdot 48 \text{ L} \cdot 325 \text{ K}}{0.5 \text{ atm} \cdot 120 \text{ K}} = 600 \text{ L}$$

9. If you have 25 liters of gas held at a pressure of 78 atm and a temperature of 400 K, what will be the volume of gas if you decrease the pressure to 45 atm and decrease the temperature to 750 K?

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2} \Rightarrow \frac{78 \text{ atm} \cdot 25 \text{ L}}{400 \text{ K}} = \frac{45 \text{ atm} \cdot V_2}{750 \text{ K}}$$

$$V_2 = \frac{78 \text{ atm} \cdot 25 \text{ L} \cdot 750 \text{ K}}{45 \text{ atm} \cdot 400 \text{ K}} = 325 \text{ L}$$

10. If I have 2.9 L of gas at a pressure of 5 atm and a temperature of 50°C, what will the temperature of the gas be if I decrease the volume of the gas to 2.4 L and decrease the pressure to 3 atm?

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2} \Rightarrow \frac{5 \text{ atm} \cdot 2.9 \text{ L}}{273 \text{ K} + 50} = \frac{3 \text{ atm} \cdot 2.4 \text{ L}}{273 \text{ K} + T_2}$$

$$T_2 = 160 \text{ K}$$

11. You have an unknown volume of gas held at a temperature of 110 K in a container with a pressure of 60 atm. If by increasing the temperature to 225 K and decreasing the pressure to 30 atm cause the volume of the gas to be 25 L, how many liters of gas did you start with?

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2} \Rightarrow \frac{60 \text{ atm} \cdot V_1}{110 \text{ K}} = \frac{30 \text{ atm} \cdot 25 \text{ L}}{225 \text{ K}}$$

$$V_1 = 11.1 \text{ L}$$

11	Li	Be											B	C	N	O	F	Ne
	Na	Mg											Al	Si	P	S	Cl	Ar
	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
	Cs	Ba	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	
	Fr	Ra	Rf	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	Fu	Uup	Lv	Uuq	Uub	Uuo	
	Lanthanide Series																	
	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu			
	Actinide Series																	
	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr			

Interpreting and Analyzing Data

Short Answer

- Describe the graph. What is the title?
- Describe the graph. What is the title?
- What are graphs A, B, C, and D all trying to represent?
- Compare and contrast C and D. The graphs are similar in what way? How are they different?
- What is the main idea? The author is trying to say...

All Summer in a Day

Multiple Choice

Identify the choice that best completes the statement or answers the question.

Critical Reading

Identify the best of the choices that best answers the question.

- What are the children doing in "All Summer in a Day" again?
 - They are reading Margot.
 - They are watching movies.
 - They are playing with a window.
 - They are parking Margot into a closet.
- What does the passage from "All Summer in a Day" suggest about the setting?

A thousand furies had been created under the rule and grown up a thousand times to be crushed again. And this was the way life was forever on the planet Venus.

 - Venus was a thousand years old.
 - Venus had rain most of the time.
 - There had never been forests in Venus.
 - There were no forests in Venus.
- What do the details in this passage tell you about Bradbury's purpose?

And this was the way life was forever on the planet Venus and this was the schoolroom of the children of the rocket men and women who had come to a raining world to set up civilization and live our best lives.

 - He writes to inform.
 - He writes to persuade.
 - He writes to question.
 - He writes to entertain.
- What does the following passage from "All Summer in a Day" say about Margot?

She was a very frail girl who looked as if she had been lost in the rain for years and the rain had washed out the blue from her eyes and the red from her mouth and the yellow from her hair.

 - Margot has been out in the rain for years.
 - Margot is pale and delicate.
 - Margot's eyes have no color.
 - Margot has longer, wavy hair.
- How do the children show their disrespect for Margot?
 - They look her in the tunnel.
 - They know her to take a blanket.
 - They look her in a closet.
 - They push her out the door.

