

Name: \_\_\_\_\_ Date: \_\_\_\_\_

11<sup>th</sup> Math Review

<b>Food for One Day</b>		
<b>Meal</b>	<b>Item</b>	<b>Calories</b>
<b>Lunch</b>	Hamburger	305
	French Fries	155
	Soda	145

1) If Ana had a second hamburger and a second soda for lunch, how many calories did she consume?

2) How many total calories are there in French fries and in the soda?

<b>Calories Burned in Each Hour</b>			
<b>Activity</b>		<b>Activity</b>	
<b>Sleeping</b>	50	<b>Siting</b>	80
<b>Running</b>	400	<b>Slow Walk</b>	120
<b>Swimming</b>	500	<b>Standing</b>	100

3) Juan ran for 45 minutes. How many calories did he use?

4) Maria ran was standing for 2 hours and 15 minutes. How many calories did she use?

5) How long does William have to run to burn up one extra pound?

6) How long does Alexia have to swim to burn up one extra pound?

7) Lidia wants to lose 2 pounds in 21 days. How many fewer calories must she consume each day?

8) Yeily wants to lose 4 pounds in 10 days. How many fewer calories must she consume each day?

<b>Chicken Casserole</b>
6 chicken breast
2 packages of frozen broccoli
10 ½ oz. chicken soup
½ cup mayonnaise
1 Tbsp lemon juice
4 oz. cheddar cheese

9) Find the amount of ingredients needed to make chicken casserole for 12 servings.

10) Find the amount of ingredients needed to make chicken casserole for 4 servings.

### **90-day Purchase Plan**

11. Sophia bought a couch at a 40% off sale. If the sale price was 239.99. What was the original cost?

12. Juan bought a rocking chair at a 35% off sale. If the sale price was \$169.67. What was the original cost?

13. Mike bought a twin mattress set at a 50% off sale. If the sale price was \$129.99. What was the original cost?

14. Diomar bought a full mattress set at a 20% off sale. If the sale price was \$199.99. What was the original cost?

15. Otto Mann bought a sofa for \$49.99. The regular price was \$79.99. What discount did he receive?

16. Maria bought a maple bed for \$149.50. The regular price was \$249.99. What discount did he receive?

17. Luis bought a sofa for \$99.99. The regular price was \$159.99. What discount did he receive?

18. Alex bought a ceiling fan for \$249.99. The regular price was \$329.99. What discount did he receive?

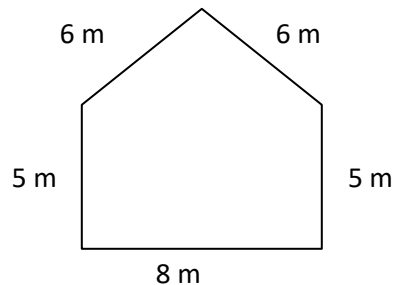
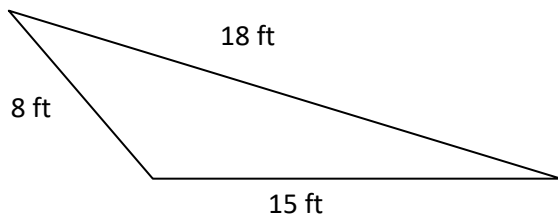
**For problems 1 – 4, match each question to its answer.**

- |                           |   |
|---------------------------|---|
| 19. What is perimeter?    | A. The area of all the surfaces of a 3-D shape. |
| 20. What is area?         | B. The number of cubes that fit inside a shape. |
| 21. What is volume?       | C. The length around a shape.                   |
| 22. What is surface area? | D. The number of squares inside a shape.        |

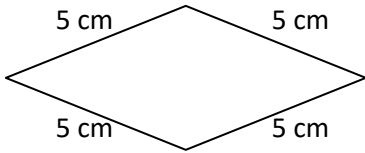
**For problems 5 – 9, find the perimeter of the shapes.**

23. Perimeter = \_\_\_\_\_

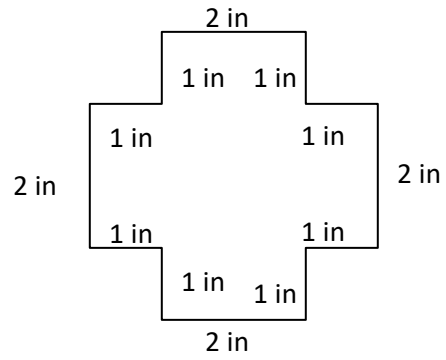
24. Perimeter = \_\_\_\_\_



25. Perimeter = \_\_\_\_\_

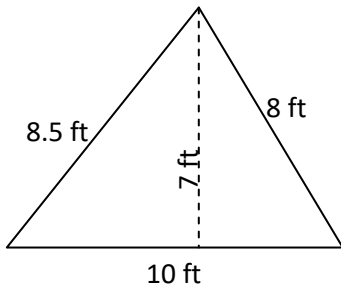


26. Perimeter = \_\_\_\_\_

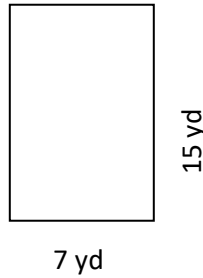


For problems 9 – 14, find the area of the shapes.

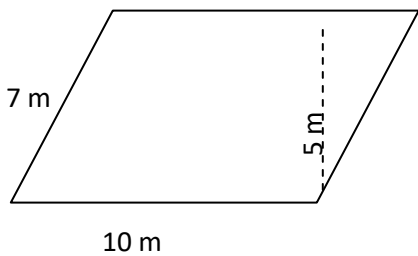
27. Area = \_\_\_\_\_



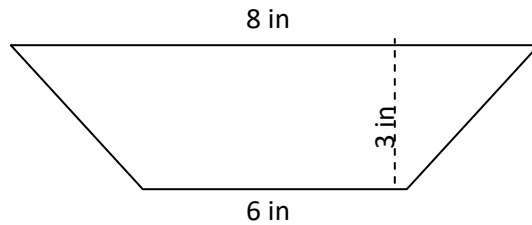
28. Area = \_\_\_\_\_



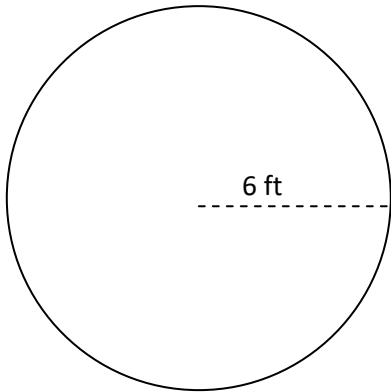
29. Area = \_\_\_\_\_



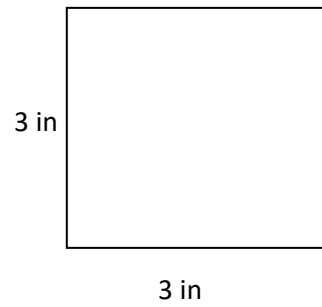
30. Area = \_\_\_\_\_



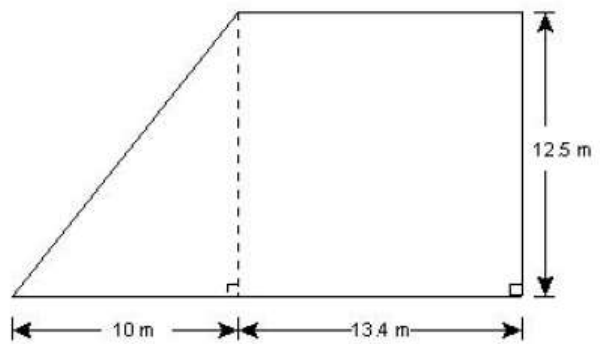
31. Area = \_\_\_\_\_



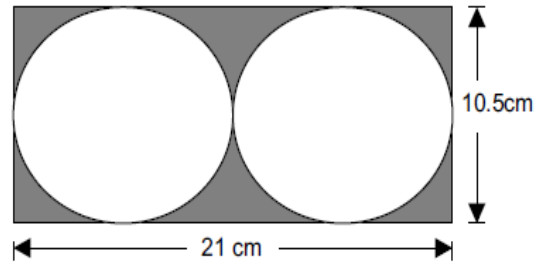
32. Area = \_\_\_\_\_



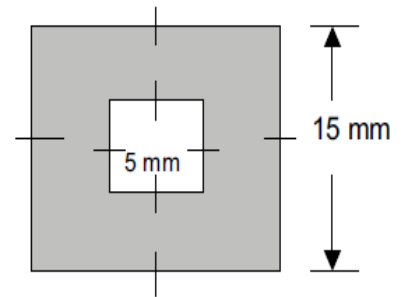
33. Calculate the perimeter and area of the geometric figures shown in the composite figure at right. Round to the nearest tenth. Show all work.



34. Calculate the perimeter and area of the shaded region in the drawing of two circles at right. Round to the nearest tenth. Show all work.

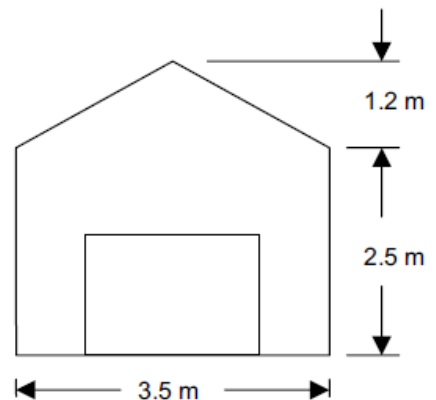


35. Find the area of the shaded region in the drawing of squares at right. Round to the nearest tenth. Show all work.



The front of a garage needs to be painted. The total area except for the door will be painted. The door is 1.5 m high and 2 m wide.

36. How many square meters of paint will be needed?



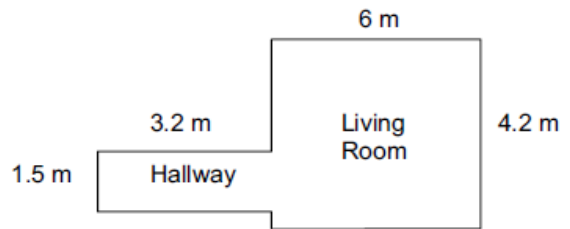
37. A can of paint covers  $2.5 \text{ m}^2$ . How many cans of paint will be needed?

38. A can of paint costs \$24.50. How much will it cost to paint the front of the garage?



**PROBLEM 2**

Joe needs to replace the carpet in his living room and hallway with laminate flooring. A floor plan is shown below.



39. What is total area of floor that needs to be recovered?

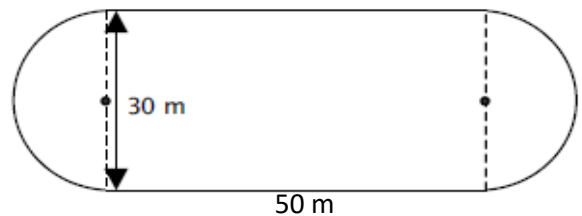
40. Each box of laminate flooring contains  $2.15 \text{ m}^2$  of flooring material. How many boxes should Joe buy?

41. One box costs \$42.60. How much will the flooring cost?

42. If Joe gets a coupon for 20% off, how much would the flooring cost?

**PROBLEM 3**

The school's athletic director wants to seed the field and replace the fence. The field is shown at right.



43. How many meters of fencing will he need to purchase?

44. How many square meters will need to be seeded with grass seed?

45. If seeding costs \$1.45 per square meter and fencing costs \$23.50 per meter, how much will it cost