

Name \_\_\_\_\_

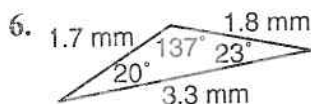
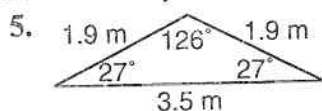
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# Cumulative Review, Chapters 1-8

(TEST !!)

- Solve  $22x = 176$ . (Lesson 1-5)
- Solve  $a = -28 + (-12)$ . (Lesson 2-3)
- Solve  $\frac{5}{8} = \frac{y}{12}$ . (Lesson 3-3)
- Would a local high school be a good place to conduct a survey for business executives of favorite places to go in the city? (Lesson 4-8)

**Classify each triangle by its angles and by its sides.**  
(Lesson 5-2)



- What kind of quadrilateral has four congruent sides and four congruent angles? (Lesson 5-3)
- Of 2, 3, 4, 5, 6, 8, 9, and 10, by which is 18 divisible? (Lesson 6-1)
- Is 5 a factor of 2,055? (Lesson 6-1)
- Order  $0.51$ ,  $\frac{7}{11}$ ,  $\frac{1}{2}$ , and  $0.\overline{54}$  from least to greatest. (Lesson 6-8)
- Express  $0.00000845$  in scientific notation. (Lesson 6-9)

**Name the multiplicative inverse of each number.** (Lesson 7-4)

12. 18

13.  $-3\frac{3}{7}$

- Find the 10th term of the sequence 1, 5, 9, 13, 17, ... (Lesson 7-5)
- The circumference of a circle is 29.8 inches. What is the diameter to the nearest tenth? Use 3.14 for  $\pi$ . (Lesson 7-7)

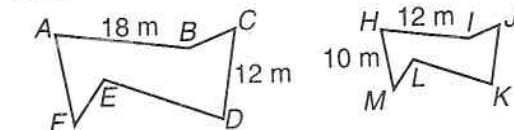
**Express each percent as a decimal.** (Lesson 8-4)

16.  $\frac{19}{1,000}\%$

17. 143%

**The polygons  $ABCDEF$  and  $HJKLM$  are similar.  $\overline{AB}$  corresponds to  $\overline{HI}$ . Use them for Questions 18 and 19.**  
(Lesson 8-7)

18. Find the length of side  $\overline{JK}$ .



19. Find the length of side  $\overline{AF}$ .

20. A polygon has vertices  $A(3, 5)$ ,  $B(1, 3)$ , and  $C(4, -2)$ . If the polygon undergoes a dilation with a scale factor of  $\frac{1}{2}$ , what are the coordinates of  $C'$  of the dilation image? (Lesson 8-10)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_