Name: _____ Period: _____ Due Date: _____

Score: ____ / ____
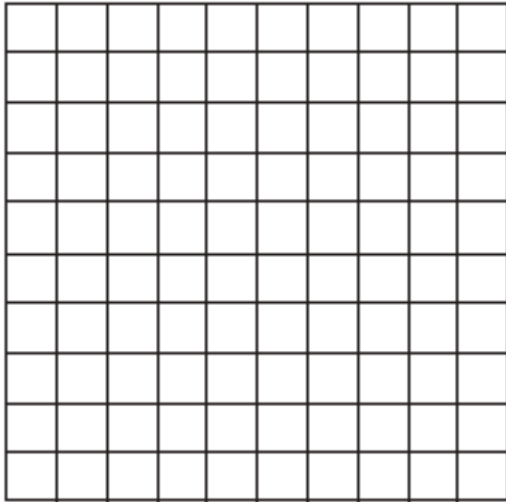
Percent:_____ = ——
                    10

INTERMEDIATE 1
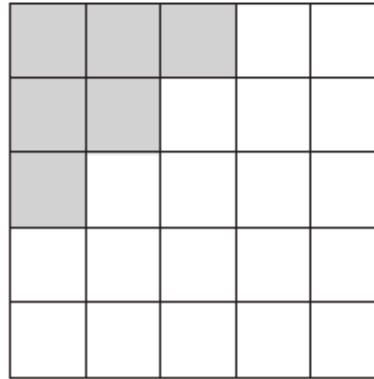UNIT 9

ASSIGNMENT 9-1
PERCENTAGES: PART OF A WHOLE

SYW: NO WORK = NO CREDIT
WORK IN PENCIL ONLY!

Part 1:

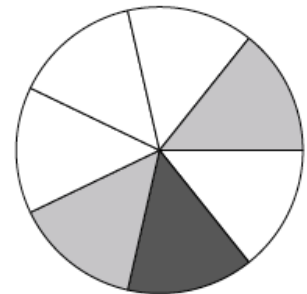1. Shade 80% of the square below.

2. What percent of the squares below are shaded? Write a proportion or use a table to show how you figured it out.

Part 2:

Find the probability of each event described below. Write your answers as **percentages and fractions**.

3. If you spun the spinner 1 time, what is the probability it would land on a gray piece?

4. If you spun the spinner 1 time, what is the probability it would land on a black piece?

5. If you spun the spinner 1 time, what is the probability it would land on a white piece?

6. If you spun the spinner 1 time, what is the probability of landing on either a white piece or a black piece?

7. If you were to select 1 shape at random from the array, what is the probability it will be a heart?

8. If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting? _____
    What is the probability of getting this shape?

9. Which shape has a 32% chance of being selected? Explain.

Part 3: Model each problem below to find the solution.
10. There are 36 students in a Math class. ¾ of the students take an Art class after their Math class, the rest take a Social Studies class. How many students take Art after Math?

11. You get 80% correct on a History quiz with 150 questions. How many questions did you get correct?

12. You have $250. If you are going to spend 40% of your money, how much money will you spend?

13. There are 40 people on your dance team and 70% if them go to VHMS. How many people on your dance team go to VHMS?

14. Sally wants to know how many 7th grades take ASL at her school. She knows 60% of the 7th grades take ASL and there are 145 7th graders at her school. How many 7th graders take ASL?

15. Tom says that 25% of his friends don't own cell phones. Tom has 32 friends. How many of Tom's friends do own cell phones?

Part 4: Solve each problem. Show your work and round your answer to the nearest hundredth.
16. What is 6% of 24.77?_____

17. What is 54% of 21.55? _____

18. What is 22% of 37.54? _____

19. What is 2% of 34.4? _____

20. What is 10% of 48.46? _____