SKILL 10: Meaning of Percent

A **percent** is a ratio that makes a comparison to 100.
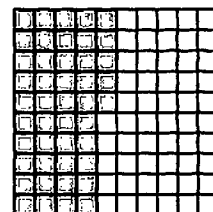The meaning of percent is hundredths. So 80% is 80 hundredths, or $\frac{80}{100}$.

Example 1

What percent (%) of the figure is shaded?

45 out of 100 squares, or 45 hundredths of the squares are shaded.

$\frac{45}{100}$ = 45%, so 45% of the figure is shaded.
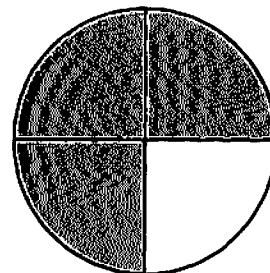
Example 2

What percent of the circle is shaded?

3 out of 4 of the sections of the circle are shaded.
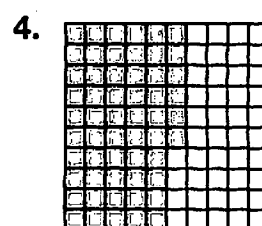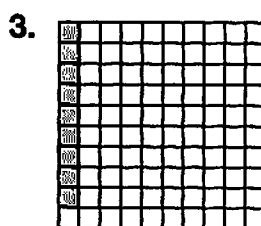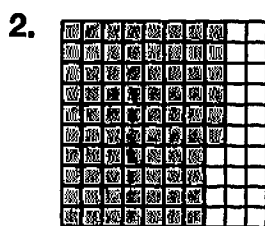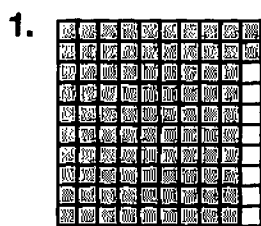Find a ratio equal to $\frac{3}{4}$ with a denominator of 100.
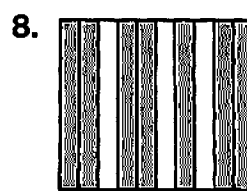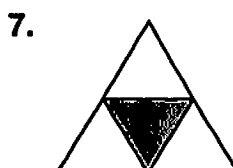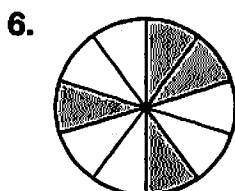Then write the percent.

$\frac{3}{4} = \frac{3 \times 25}{4 \times 25} = \frac{75}{100}$ = 75%, so 75% of the circle is shaded.

Guided Practice

Give the percent of each figure that is shaded.

1.

2.

3.

4.

5.

$\frac{1}{2} = \frac{\square}{100}$

$\frac{1}{2} =$ _____

6.

$\frac{4}{10} = \frac{\square}{100}$

$\frac{4}{10} =$ _____

7.

$\frac{1}{4} = \frac{\square}{100}$

$\frac{1}{4} =$ _____

8.

$\frac{7}{10} = \frac{\square}{100}$

$\frac{7}{10} =$ _____

SKILL 10: Practice

What percent of the figure is shaded?

1.

_____

2.

_____

3.

_____

4.

_____

5.

_____

6.

_____

7.

_____

8.

_____

9.

_____
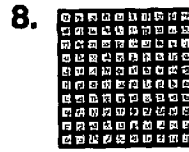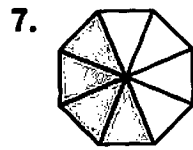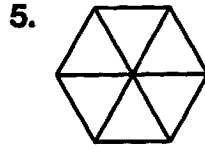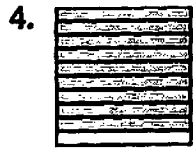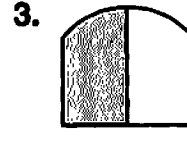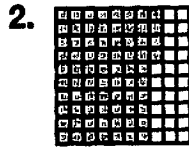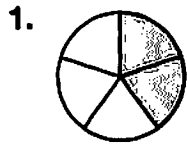
Solve each problem using the circle graph.

10. What percent of the preferred reading is humor or mystery books?   _____

11. What types of books together represent 90% of the preferred reading?   _____

12. What percent is represented by the entire circle?   _____

Preferred Reading

Biography 4%
Romance 6%
Animals 10%
Humor 14%
Mystery 40%
Sports 26%
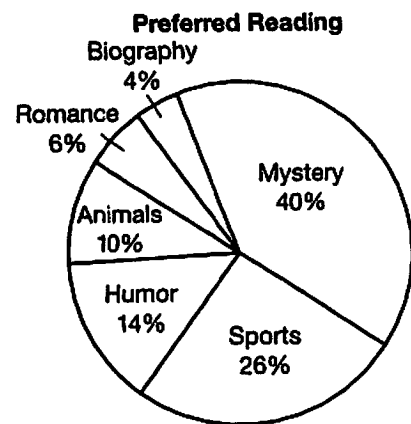
TEST PREP

13. What percent of the figure is shaded?

Skill 10

A 0.4

B $\frac{2}{5}$

C 40%

D 60%

14. Jo saves $6 out of every $15 she earns. How much does she save out of $100 earned?

Skill 7

F $40

G $90

H $25

J $250