SKILL 10: Meaning of Percent

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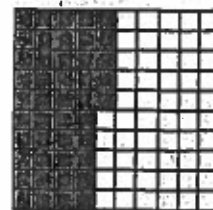The meaning of percent is hundredths. So 80% is 80 hundredths, or $\frac{80}{100}$.

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.
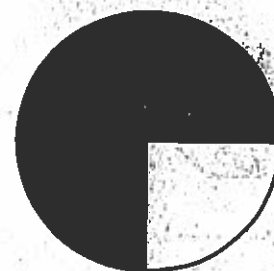
Example 2

What percent of the circle is shaded?

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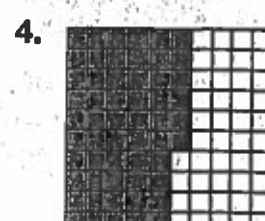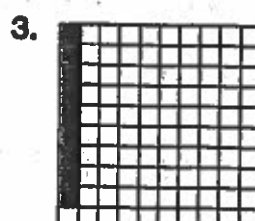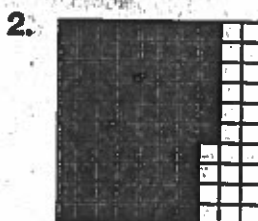Find a ratio equal to $\frac{3}{4}$ with a denominator of 100.
Then write the percent.

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

Guided Practice

Give the percent of each figure that is shaded.

1.

2.

3.

4.

5.

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

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

6.

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

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

7.

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

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

8.

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

$\frac{7}{10} =$ _____
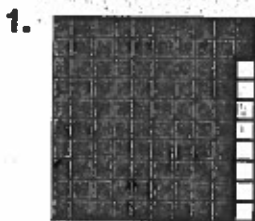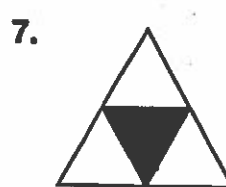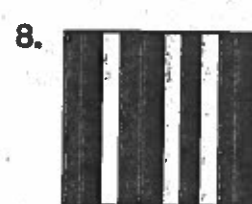
What Do Centipedes Hate To Do?

Do each exercise and find your answer at the bottom of the page. Write the letter of the exercise in the box containing the answer.
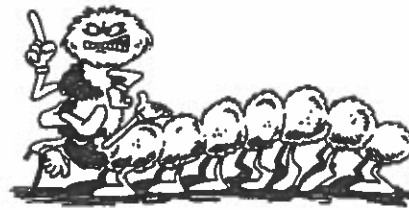
I. Write a percent for the amount shaded.

(T) (E) (F) (O)
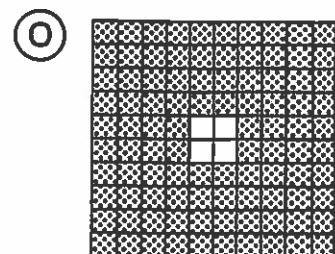
II. Write a percent for each group of circles.

(A) the shaded circles

(E) the unshaded circles
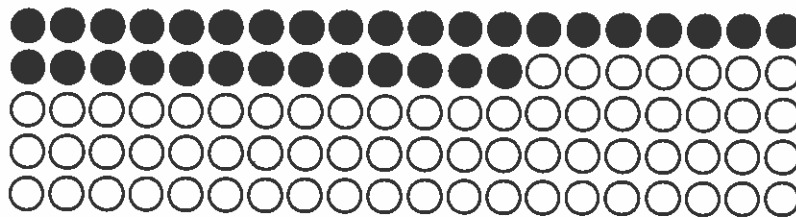
III. Write a percent for each ratio.

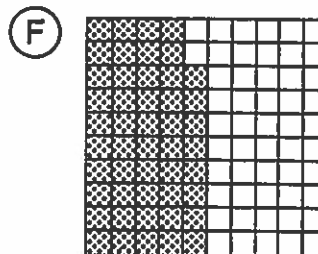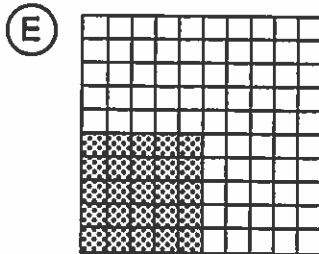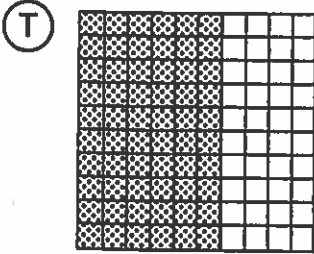(S) 1 to 100   (N) 83 to 100   (O) 54 : 100   (T) 2 : 10

(W) $\frac{75}{100}$ (H) $\frac{24}{100}$ (O) $\frac{8}{10}$ (F) $\frac{5}{10}$

(H) 0.62   (O) 0.98   (Y) 0.4   (R) 0.1

(T) 0.03   (G) 0.86   (A) 0.07   (T) 1.0

IV. Solve.

(D) There are 100 centimeters in a meter. What percent of a meter is 30 cm?

(T) There are 100 cents in a dollar. What percent of a dollar is $0.15?

(O) Of the 100 million acres in California, the federal government owns 45 million acres. What percent is this?

(N) Gulliver tossed a coin 100 times and got 43 heads. What percent of the tosses were *tails*?

(F) Of 100 students surveyed, 90 chose math as their favorite subject. What percent chose math?

(R) A sheet of 100 stamps has 22 stamps left. What percent of the stamps has already been used?

1%	3%	7%	10%	15%	18%	20%	24%	25%	29%	30%	33%	40%	42%	45%	48%	50%
54%	57%	59%	60%	62%	67%	71%	75%	78%	80%	83%	86%	88%	90%	96%	98%	100%

SKILL 10: Practice

What percent of the figure is shaded?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____
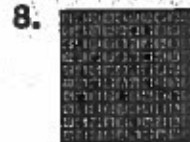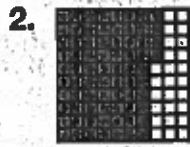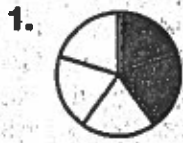
Solve each problem using the circle graph.

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%
Mystery 40%
Animals 10%
Humor 14%
Sports 26%
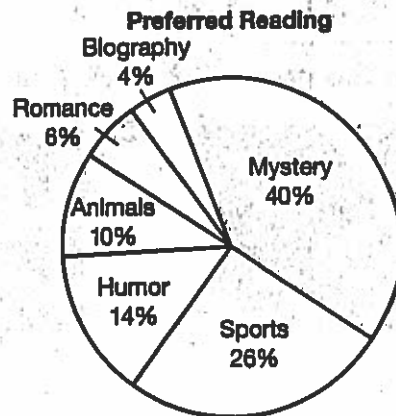
TEST PREP

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

Why Did the Teacher Give One of Her Students a Button Like This One?

(TUIT)

Write each answer and then find it in the corresponding set of answers. Print the letter of the exercise in the box above the answer.

Write each decimal as a percent.

E) 0.33   T) 0.65   A) 0.91
U) 0.47   E) 0.16   H) 0.82
S) 0.04   T) 0.07   D) 0.01
H) 0.2   N) 0.9   T) 0.5

Write each fraction as a percent.

D) $\frac{17}{100}$ L) $\frac{75}{100}$ A) $\frac{44}{100}$
O) $\frac{8}{100}$ E) $\frac{3}{100}$ D) $\frac{5}{100}$
H) $\frac{6}{10}$ S) $\frac{4}{10}$ U) $\frac{7}{10}$
I) $\frac{1}{10}$ W) $\frac{100}{100}$ D) $\frac{23}{100}$

7%	20%	33%	36%	4%	50%	47%	1%	16%	91%	90%	65%	11%	82%	91%	5%	14%	40%	44%	10%	17%	81%	60%	3%	42%	100%	8%	70%	75%	23%	64%

Write each percent as a decimal.

E) 25%   D) 67%   G) 39%
H) 98%   S) 13%   E) 71%
N) 3%   U) 8%   H) 2%
Y) 40%   W) 90%   T) 50%

Write each percent as a fraction in lowest terms.

U) 23%   T) 7%   O) 81%
D) 10%   A) 25%   T) 60%
I) 90%   O) 35%   T) 2%
N) 75%   R) 5%   U) 50%

0.13	0.5	0.08	0.67	0.4	0.21	0.9	0.98	0.25	0.03	0.78	0.02	0.71	0.16	0.39

$\frac{18}{100}$	$\frac{3}{5}$	$\frac{3}{10}$	$\frac{1}{4}$	$\frac{9}{25}$	$\frac{1}{20}$	$\frac{7}{20}$	$\frac{23}{100}$	$\frac{3}{4}$	$\frac{1}{10}$	$\frac{4}{5}$	$\frac{7}{100}$	$\frac{1}{2}$	$\frac{9}{10}$	$\frac{1}{50}$