



## SKILL 14: Estimating Percents

To estimate the percent of a number, think of numbers that are close to those given but more convenient to use.

### Example 1

**Estimate 87.2% of 300.**

Think: 87.2% is close to 90%, so find 90% of 300.

$$90\% \times 300 = \frac{9}{10} \times 300 = 270.$$

87.2% of 300 is about 270.

### Example 2

**Estimate 27% of 41.**

Think: 27% is close to 25% and 41 is close to 40, so find 25% of 40.

$$25\% \times 40 = \frac{1}{4} \times 40 = 10$$

27% of 41 is about 10.

### Guided Practice

**Estimate. Show what numbers you used.**

1. 19% of 48

↓      ↓

20% of \_\_\_\_\_

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

2. 61.5% of 98

↓      ↓

\_\_\_\_\_ of \_\_\_\_\_

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

3. 76% of 27

↓      ↓

\_\_\_\_\_ of \_\_\_\_\_

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

4. 97% of 325

↓      ↓

\_\_\_\_\_ of \_\_\_\_\_

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

5. 2.2% of 517

↓      ↓

\_\_\_\_\_ of \_\_\_\_\_

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

6. 32% of 18

↓      ↓

\_\_\_\_\_ of \_\_\_\_\_

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

**SKILL 14: Practice**

Estimate each percent. Show what numbers you used.

1. 24.5% of 80

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

2. 30% of 19.7

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

3. 22% of 44.7

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

4. 61% of 15

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

5. 41% of 81.2

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

6. 47% of 89

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

7. 9% of 82.3

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

8. 71% of 21

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

9. 76% of 17

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

10. 13% of 16

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

11. 17% of 195

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

12. 34% of 46

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

13. 85% of 603

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

14. 67% of 64

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

15. 4.3% of 600

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

The chart shows the percent of each type of tissue in the human body. Estimate the weight of each kind of tissue in a 120-pound person.

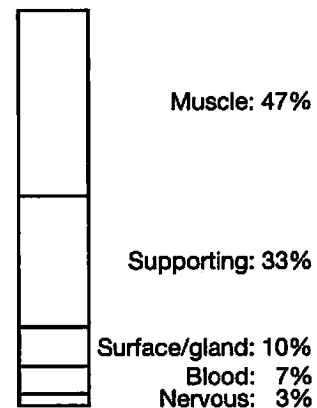
16. Muscle tissue \_\_\_\_\_

17. Supporting tissue \_\_\_\_\_

18. Surface/gland tissue \_\_\_\_\_

19. A human body is about 65% water. Estimate the weight of the water in a 120-pound person. \_\_\_\_\_

Tissue in the Human Body



20. Which is the best estimate for 41% of 79?

A 28

C 200

B 32

D 16

Skill 14

21. Find 65% of 8.

F 52

H 5.2

G 0.52

J 4.8

Skill 12