

Challenge

Which Is Closer?

There are two multiplication equations below each target number. First estimate and circle the letter of the equation whose product you think is closer to but less than the target number. Then multiply both equations to check.

1. Target number: 3,584

a. $52 \times 75 =$ _____

b. $81 \times 43 =$ _____

3. Target number: 4,374

a. $59 \times 78 =$ _____

b. $64 \times 68 =$ _____

5. Target number: 6,123

a. $68 \times 87 =$ _____

b. $94 \times 75 =$ _____

7. Target number: 3,398

a. $37 \times 75 =$ _____

b. $82 \times 49 =$ _____

9. Target number: 5,106

a. $97 \times 56 =$ _____

b. $82 \times 61 =$ _____

2. Target number: 5,495

a. $59 \times 86 =$ _____

b. $63 \times 92 =$ _____

4. Target number: 7,024

a. $86 \times 73 =$ _____

b. $83 \times 84 =$ _____

6. Target number: 5,687

a. $84 \times 76 =$ _____

b. $65 \times 79 =$ _____

8. Target number: 4,975

a. $74 \times 62 =$ _____

b. $78 \times 79 =$ _____

10. Target number: 2,987

a. $76 \times 31 =$ _____

b. $48 \times 65 =$ _____

11. **Explain Your Thinking** How did you estimate the target number in exercise 4?

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Which Is Closer?

There are two multiplication equations below each target number. First estimate and circle the letter of the equation whose product you think is closer to but less than the target number. Then multiply both equations to check.

1. Target number: 3,584

a. $52 \times 75 =$ 3,900

b. $81 \times 43 =$ 3,483

3. Target number: 4,374

a. $59 \times 78 =$ 4,602

b. $64 \times 68 =$ 4,352

5. Target number: 6,123

a. $68 \times 87 =$ 5,916

b. $94 \times 75 =$ 7,050

7. Target number: 3,398

a. $37 \times 75 =$ 2,775

b. $82 \times 49 =$ 4,018

9. Target number: 5,106

a. $97 \times 56 =$ 5,432

b. $82 \times 61 =$ 5,002

2. Target number: 5,495

a. $59 \times 86 =$ 5,074

b. $63 \times 92 =$ 5,796

4. Target number: 7,024

a. $86 \times 73 =$ 6,278

b. $83 \times 84 =$ 6,972

6. Target number: 5,687

a. $84 \times 76 =$ 6,384

b. $65 \times 79 =$ 5,135

8. Target number: 4,975

a. $74 \times 62 =$ 4,588

b. $78 \times 79 =$ 6,162

10. Target number: 2,987

a. $76 \times 31 =$ 2,356

b. $48 \times 65 =$ 3,120

11. **Explain Your Thinking** How did you estimate the target number in exercise 4?

Answers may vary. Sample answer: I rounded and

multiplied. $90 \times 70 = 6,300$; $80 \times 80 = 6,400$; 6,400 is

closer to 7,024.