Using Compatible Numbers to Estimate

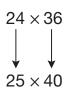
Use compatible numbers to estimate 24×36 .

Remember, compatible numbers are numbers that are easy to multiply.

Step 1

Pick compatible numbers.

- 24 is close to 25.
- 36 is close to 40.



Step 2

Multiply the compatible numbers.

$$25 \times 40 = 1,000$$

So, 24×36 is about 1,000.

Estimate to find each product.

1. 23 × 12

23 is close to 25.

12 is close to _____.

25 × ____ = ___

2. 24 × 31

24 is close to 25.

31 is close to _____.

_____ × ____ = ____

3. 42×26

42 is close to_____.

26 is close to _____.

_____ × ____ = ____

4. 63×59

63 is close to_____.

59 is close to .

_____ × ____ = ____

- **5.** $19 \times 24 =$
- **6.** $51 \times 17 =$ **7.** $82 \times 78 =$
- **8.** 24 × 61 =
- **9.** $48 \times 29 =$ _____ **10.** $53 \times 39 =$ _____
- **11.** There are 27 offices on each floor of a skyscraper. About how many offices are on 32 floors?
- **12.** Yoko estimates that the product of 48 and 53 is 250. Is that reasonable? Why or why not?