Name: ........................................................................... Class: ...........................

## Estimate quotients

### In each case, find the estimated quotients. (follow the example).

**a.** Find the estimated quotient of : 

$$86 \div 9$$

▸ 86 ⟶ **90**

86 is closest to **90**

▸ **90 ÷ 9**

$$\begin{array}{r} 1\,0 \\ 9\,\overline{)\,9\,0} \\ -9\,0 \\ \hline 0\,0 \end{array}$$

The estimated quotient is **10**

**b.** Find the estimated quotient of : 5,087 ÷ 24

**c.** Find the estimated quotient of : 24,551 ÷ 14

**d.** Find the estimated quotient of : 32 ÷ 5

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## Estimate quotients

**In each case, find the estimated quotients. (follow the example).**

**a.** Find the estimated quotient of : 86 ÷ 9

- 86 ⟶ 90
- 86 is closest to 90
- 90 ÷ 9

```
        1 0
9  |  9 0
      - 9 0
        0 0
```

The estimated quotient is 10

**b.** Find the estimated quotient of : 5,087 ÷ 24

- 5,087 ⟶ 5,088
- 5,087 is closest to 5,088
- 5,088 ÷ 24

The estimated quotient is 212

```
             2 1 2
24  |  5 0 8 8
        - 4 8
          2 8
         - 2 4
            4 8
          - 4 8
            0 0
```

**c.** Find the estimated quotient of : 24,551 ÷ 14

- 24,551 ⟶ 24,556
- 24,551 is closest to 24,556
- 24,551 ÷ 14

The estimated quotient is 1,754

```
             1 7 5 4
14  |  2 4 5 5 6
        - 1 4
          1 0 5
          - 9 8
             7 5
            - 7 0
               5 6
             - 5 6
               0 0
```

**d.** Find the estimated quotient of : 32 ÷ 5

- 32 ⟶ 30
- 32 is closest to 30
- 30 ÷ 5

```
        6
5  |  3 0
    - 3 0
      0 0
```

The estimated quotient is 6