

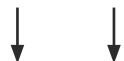
**Additional Practice 4-2****Estimate the Product of a Decimal and a Whole Number****Another Look!**

Zane needs to buy 27 party favors for the family reunion. The favors cost \$2.98 each. About how much will the party favors cost in all?

Here are two ways you can estimate.

Round both numbers.

$$\$2.98 \times 27$$



The favors will cost about \$90.

Is an overestimate or an underestimate better when estimating how much something will cost?

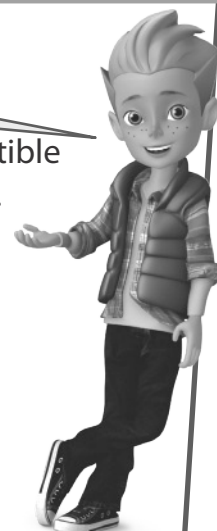
Replace the factors with compatible numbers and multiply mentally.

$$\$2.98 \times 27$$



The favors will cost about \$75.

Since 27 is between 25 and 30, the total cost will be between \$75 and \$90.



1. Round to the greatest place to estimate 23×1.75 .

$$\begin{array}{c} 23 \times 1.75 \\ \downarrow \quad \downarrow \\ \underline{\quad} \times \underline{\quad} \end{array}$$

So, 23×1.75 is about _____

2. Use compatible numbers to estimate 12×0.49 .

$$\begin{array}{c} 12 \times 0.49 \\ \downarrow \quad \downarrow \\ \underline{\quad} \times \underline{\quad} \end{array}$$

So, 12×0.49 is about _____

In **3–14**, estimate each product.

3. 19.3×6

4. 345×5.79

5. 9.66×0.46

6. 8.02×70

7. 1.56×48

8. 45.1×5

9. 0.13×11

10. 99.7×92

11. 147×10.4

12. 23.7×4.76

13. 3×0.85

14. 0.35×9



15. Can Mrs. Davis and her two sisters get their hair colored for less than \$100 if they include a \$10 tip? Explain.

16. If Mrs. Davis and her sisters also get haircuts, about how much will they pay in all?

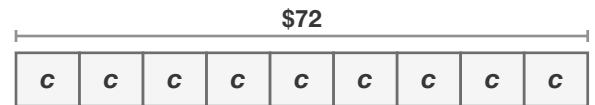


Treatment	Cost
Shampoo	\$7.95
Haircut	\$14.95
Coloring	\$28.95

17. **Reasoning** Mrs. Smith bought her three children new raincoats. Each raincoat cost \$25.99. About how much did Mrs. Smith spend on the 3 raincoats? Is your estimate an overestimate or underestimate? Write an equation to show your work.

18. **Higher Order Thinking** Some Native American tribes made jewelry with Dentalia shells. Each Dentalia shell is about 1.5 inches long. About how much longer would a necklace made with 24 shells be than a necklace made with 18 shells? Use compatible numbers.

19. **Algebra** A youth hockey league is selling boxes of popcorn to raise money for new uniforms. Sidney sold 9 boxes for a total of \$72 in sales. Use the bar diagram and write an equation to find the value of c , the cost of each box Sidney sold.



Assessment Practice

20. Rounding to the nearest tenth, which of the following give an **overestimate**?

- ☐ 37.63×0.54
- ☐ 54.49×0.45
- ☐ 1.19×1.45
- ☐ 0.81×8.01
- ☐ 27.83×13.64

21. Rounding to the nearest whole number, which of the following give an **underestimate**?

- ☐ 2.7×13.5
- ☐ 4.51×8.7
- ☐ 9.19×8.48
- ☐ 7.49×11.4
- ☐ 3.6×6.5