## Estimating the Product of a Decimal and a Whole Number

You can estimate when you are multiplying a decimal by a whole number to check the reasonableness of your product.
Zane needs to buy 27 lb of roast beef for the company party. The roast beef costs $\$ 2.98$ per pound. About how much will the roast beef cost?

There are two ways to estimate.

Round both numbers


The roast beef will cost about $\$ 90$.

Adjust your factors to compatible numbers you can multiply mentally.

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$2.98 < 27
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\(\$ 3 \times 25=\$ 75\)
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The roast beef will cost about $\$ 75$.

Estimate each product.

1. $0.8 \times 22$ $\qquad$ 2. $19.3 \times 6$ $\qquad$
2. $345 \times 5.79$ $\qquad$ 4. $966 \times 0.46$ $\qquad$

Use the chart to answer questions 5 through 7.
5. About how much would it cost for Angelina and her 4 sisters to get a shampoo and a haircut?

| Treatment | Cost |
| :--- | :---: |
| Shampoo | $\$ 7.95$ |
| Haircut | $\$ 12.95$ |
| Coloring | $\$ 18.25$ |
| Perm | $\$ 22.45$ |

6. Could 3 of the sisters get their hair colored for less than $\$ 100$ ?
$\qquad$
7. Angelina gets 9 haircuts per year. About how much does she spend on haircuts for the year?
