

Name: _____ Date: _____

The Real Deal

Percents

The marketing department at the Real Deal Store checks every week to be sure they have the lowest prices on all of their advertised items. They make a list like the one below showing their advertised price and a competitor's advertised price. Can you help the marketing department decide who has the best price on each item? (Hint: To find the amount off the original price, enter the price first then enter the number for the percent and press the **%** key.)

Item	Real Deal Ad	Real Deal Price	Competitor's Ad	Competitor's Price	Who's Best?
1	25% off \$8.50		33% off \$10.89		
2	15% off \$12.99		20% off \$16.50		
3	66% off \$49.99		75% off \$58.88		
4	12% off \$28.75		18% off \$25.50		
5	65% off \$45.80		45% off \$32.90		
6	30% off \$127.45		35% off \$140.19		

Thinking Cap



One of the employees in the marketing department said that she knew of a way to find the prices without ever using the **=** key on her calculator. How did she do this? Use this new method to check all of your answers in your list above.

The Real Deal

Percents

Topic: Using Percent to Find Discount Price

Objective: To use the calculator to solve problems involving percents.

NCTM Standards: Problem Solving, Connections, Number and Number Relationships

Using the Activity

Students use the calculator in this activity to find the percent of a price and then subtract to find the discount price.

- The **%** key can be used to find the percent of the price.
- The **M+** and **MR** keys can be used to enter the result into the memory of the calculator.

Example To find the Real Deal price for Item 1, enter 8.50 **X** 25 **%** **M+** 8.50 **-** **MR** **=** 6.375. To find the Competitor's price for Item 1, enter 10.89 **X** 33 **%** **M+** 10.89 **-** **MR** **=** 7.2963. Since $6.375 < 7.2963$, Real Deal has the best price on Item 1.

Assessment Have students estimate their answers before they use the calculator to find the actual answers. Then have them compare their estimate to be sure their actual answer seems correct.

Answers

Item 1: See example above for answer. **Item 2:** Real Deal Price: 12.99 **X** 15 **%** **M+** 12.99 **-** **MR** **=** 11.0415; Competitor's Price: 16.50 **X** 20 **%** **M+** 16.50 **-** **MR** **=** 13.2; Since $11.0415 < 13.2$, Real Deal has the best price on Item 2. **Item 3:** Real Deal Price: 49.99 **X** 66 **%** **M+** 49.99 **-** **MR** **=** 16.9966; Competitor's Price: 58.88 **X** 75 **%** **M+** 58.88 **-** **MR** **=** 14.72; Since $16.9966 > 14.72$, the competitor has the best price on Item 3. **Item 4:** Real Deal Price: 28.75 **X** 12 **%** **M+** 28.75 **-** **MR** **=** 25.3; Competitor's Price: 25.50 **X** 18 **%** **M+** 25.50 **-** **MR** **=** 20.91, Since $25.3 > 20.91$, the competitor has the best price on Item 4. **Item 5:** Real Deal Price: 45.80 **X** 65 **%** **M+** 45.80 **-** **MR** **=** 16.03; Competitor's Price: 32.90 **X** 45 **%** **M+** 32.90 **-** **MR** **=** 18.095; Since $16.03 < 18.095$, Real Deal has the best price on Item 5. **Item 6:** Real Deal Price: 127.45 **X** 30 **%** **M+** 127.45 **-** **MR** **=** 89.215; Competitor's Price: 140.19 **X** 35 **%** **M+** 140.19 **-** **MR** **=** 91.1235; Since $89.215 < 91.1235$, Real Deal has the best price on Item 6.

Thinking Cap Answers

Item 1: Real Deal Price: 8.50 **X** (**100** **-** 25 **)** **%** 6.375; Competitor's Price: 10.89 **X** (**100** **-** 33 **)** **%** 7.2963. **Item 2:** Real Deal Price: 12.99 **X** (**100** **-** 15 **)** **%** 11.0415; Competitor's Price: 16.50 **X** (**100** **-** 20 **)** **%** 13.2. **Item 3:** Real Deal Price: 49.99 **X** (**100** **-** 66 **)** **%** 16.9966; Competitor's Price: 58.88 **X** (**100** **-** 75 **)** **%** 14.72. **Item 4:** Real Deal Price: 28.75 **X** (**100** **-** 12 **)** **%** 25.3; Competitor's Price: 25.50 **X** (**100** **-** 18 **)** **%** 20.91. **Item 5:** Real Deal Price: 45.80 **X** (**100** **-** 65 **)** **%** 16.03; Competitor's Price: 32.90 **X** (**100** **-** 45 **)** **%** 18.095. **Item 6:** Real Deal Price: 127.45 **X** (**100** **-** 30 **)** **%** 89.215; Competitor's Price: 140.19 **X** (**100** **-** 35 **)** **%** 91.1235.