

## Review Topic 3: Mental Percentages

Think about a 50% off sale. The arithmetic is easy. Just divide by 2. 25% is just as easy. Divide by 4. For 75%, divide by 4 then multiply by 3. 10% is found by dividing by 10 which for decimals in your head is just moving the decimal to the left one space.

Practice: Find the given discount for the following original prices. Try doing the arithmetic in your head.

| To find this→ | 10%     | 20%               | 30%       | 70%       | 5%                 | 15%        | 35%    | 85%    | 25% | 50% | 75%   | $33\frac{1}{3}\%$ | $66\frac{2}{3}\%$ |
|---------------|---------|-------------------|-----------|-----------|--------------------|------------|--------|--------|-----|-----|-------|-------------------|-------------------|
| do this →     | ÷ 10    | ÷ 5               | 3*10<br>% | 7*10<br>% | $\frac{1}{2}$ *10% | 10%+5<br>% | 30%+5% | 80%+5% | ÷ 4 | ÷ 2 | ÷ 4*3 | ÷ 3               | ÷ 3*2             |
| a)            | \$34.00 | 34.00<br>)10<br>= |           |           |                    |            |        |        |     |     |       |                   |                   |
| b)            | \$625   |                   |           |           |                    |            |        |        |     |     |       |                   |                   |
| c)            | \$1.40  |                   |           |           |                    |            |        |        |     |     |       |                   |                   |
| d)            | \$5.25  |                   |           |           |                    |            |        |        |     |     |       |                   |                   |
| e)            | \$.60   |                   |           |           |                    |            |        |        |     |     |       |                   |                   |
| f)            | \$.62   |                   |           |           |                    |            |        |        |     |     |       |                   |                   |