**“Halfing” Fun Answer Key**

How quickly can you figure out half of each of the amounts below using only mental math? Check your answers using a calculator or pencil and paper.

½ of $30 = \_\_\_\_\_\_\_\_\_\_\_\_\_ $15

½ of $8 = \_\_\_\_\_\_\_\_\_\_\_\_ $4

½ of $14 = \_\_\_\_\_\_\_\_\_\_\_\_ $7

½ of $24 = \_\_\_\_\_\_\_\_\_\_\_\_$12

½ of $36 = \_\_\_\_\_\_\_\_\_\_\_\_$18

½ of $78 = \_\_\_\_\_\_\_\_\_\_\_\_$39

½ of $56 = \_\_\_\_\_\_\_\_\_\_\_\_$28

½ of $22 = \_\_\_\_\_\_\_\_\_\_\_\_$11

½ of $16 = \_\_\_\_\_\_\_\_\_\_\_\_$8

½ of $340 = \_\_\_\_\_\_\_\_\_\_\_\_$170

½ of 210 = \_\_\_\_\_\_\_\_\_\_\_\_$105

½ of 502 = \_\_\_\_\_\_\_\_\_\_\_\_$251

½ of $864 = \_\_\_\_\_\_\_\_\_\_\_\_$432

½ of $326 = \_\_\_\_\_\_\_\_\_\_\_\_$163

½ of $185 = \_\_\_\_\_\_\_\_\_\_\_\_$92.50

½ of $275 = \_\_\_\_\_\_\_\_\_\_\_\_$137.50

**“In-Tenths” Practice**

Answer each set of questions below. Use mental math to answer and then describe what you did in your mind.

1. Packages of batteries normally sell for $4.99. They are now 20% off. About how much is saved buying them at the sale price?\_\_$1.00\_\_\_\_\_\_\_\_\_  
   About how much would you have to pay?\_\_\_$3.99\_\_\_\_\_\_\_\_\_  
   How did you figure it out?\_\_\_$4.99 X .20 = .998 which rounds up to $1, then $4.99 - $1 = $3.99\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. $24.99 coffee makers are now on sale at 30% off. About how much is saved buying one at the sale price? \_\_$7.50\_\_\_\_\_\_\_\_\_\_  
   About how much would you have to pay?\_\_\_$17.49\_\_\_\_\_\_\_\_\_  
   How did you figure it out? \_\_\_$24.99 X .30 - $7.50, then $24.99 – 7.50 = $17.49\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. A five-piece patio set is priced at $59.99. It is now specially marked at 40% off. About how much is saved buying one at the sale price?\_\_\_\_$24\_\_\_\_\_\_  
   About how much would you have to pay?\_\_$35.99\_\_\_\_\_\_\_\_\_\_  
   How did you figure it out?\_\_\_\_$59.99 \* .40 = 23.996 which rounds up to $24.00, then $59.99 – 24 = 35.99\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Home fire extinguishers are on sale at 20% the regular price of $9.99. About how much is saved buying them at the sale price?\_\_$2.00\_\_\_\_\_\_\_  
   About how much would you have to pay?\_\_$7.99\_\_\_\_\_\_\_\_  
   How did you figure it out?\_\_\_\_$9.88 X .20 = 1.998 which rounds up to $2.00, then $9.99 - $2 = $7.99\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Mental Math Practice-Fractions and Percents**

How quickly can you figure out each of the amounts below? Check your work with a calculator or pencil and paper.

20% of $20 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $4

¼ of $104=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$21

30% of $66=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$19.80

25% of $88=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$22

30% of $30=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$9

¾ of $60=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$45

½ of $7=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$3.50

30% of 50=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$15

40% of $360=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$144

¾ of $24=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$18

40% of $30=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$12

Three quarters of $80=\_\_\_\_\_\_\_\_$60

20% of $806=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$161.20

One-tenth of $88=\_\_\_\_\_\_\_\_\_\_\_$8.80

50% of $17=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$8.50

One-fourth of $120=\_\_\_\_\_\_\_\_\_$30

40% of $50=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$20

One-fourth of $40=\_\_\_\_\_\_\_\_\_\_$10

Half of $82=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_$42

One-tenth of $70=\_\_\_\_\_\_\_\_\_\_\_$7

**Comparing Prices**

Compare the two items on sale below. Is one a better deal than another? How do you know? Try to show at least two different ways that you could compare the two sales. 2nd one is better deal

**Sale!**

**Regularly priced at $39.99**

**Now on sale for $29.99**

**Sale!**

**Regularly priced at $49.99**

**Now on sale for $39.99**

Compare the two items on sale below. Is one a better deal than another? How do you know? Try to show at least two different ways that you could compare the two sales. Same deal

**Sale!**

**Regularly priced at $23.99**

**Now on sale for $17.99**

**Sale!**

**Regularly priced at $27.99**

**Now on sale for $20.99**