1. Joe made 75% of his attempted baskets in the 7th grade game last night. If Joe made 12 baskets, then how many baskets did he attempt?

2. Jennifer bought an MP3 player on sale with an “early bird special” at Circuit City the day after Thanksgiving; the sale price of the MP3 player was $54, which was 40% off of the regular price.

Q1: What was the REGULAR price of the MP3 player?



Q2: Two weeks later Bobby purchased the same MP3 player for 25% off. Disregarding tax, what did Bobby pay for the MP3 player?

3. Ms. Smith bought a giant bag of M&Ms to make M&M chocolate chip cookies. She counted 42 purple M&Ms. If 15% of the bag of M&Ms are purple, then how many total M&Ms are in this giant bag?

4. Mr. Hunter conducted a survey and discovered that 18 out of 24 of his 1st period students have a pet. Similarly, Mrs. Mills found that 18 out of 27 of her 1st period students have a pet.

Q1: What percentage of Mr. Hunter’s students have a pet?

Q2: What percentage of Mrs. Mills’ students have a pet?



5. In the various junior high games last night, Karla made ate 4 free throws out of 5 attempted free throws; Jason made 7 free throws out of 10 attempted free throws. Which person made the highest percentage of their free throws last night? PROVE IT by finding each percent.

6. Laura wants to leave a 15% tip for a family meal that cost $28.00. How much should Laura leave?

7. Mrs. Johnson’s spoiled, 22-lb cat, Brutus, wakes her up (on average) 3 nights out of the week because he wants to go outside sometime during the middle of the night. Brutus will pace outside her bedroom door and meow loudly until she gets up to let him out.

Q1: Which proportion can be used to find x, the percentage of nights that Brutus wakes

Mrs. Johnson up so that she will let him go outside?



Q2: Which is a valid conclusion from the data? Prove it!

A More than 50% of Mrs. Johnson’s nights

 are disturbed by her cat.

B Mrs. Johnson should put her cat outside

 before she goes to bed.

C Brutus wakes Mrs. Johnson up between

 40% to 45% of the time.

D Mrs. Johnson’s sleep is disturbed less than

 25% of the time by Brutus.

8. As the holidays approach, production is stepping up at the Hershey® factory. According to the latest company guidelines, the holiday bags of Hershey’s® Miniatures will contain 40% regular Hershey® bars, 15% Special Dark® bars, 20% Mr. Goodbars®, and 25% Krackle® bars.

Note: Mr. Goodbar is the ONLY candy bar that has nuts out of these types.

Q1: Which proportion can be used to find x, the total number Special Dark bars in a giant bag containing 180 candy bars altogether?

Q2: If you know the percent and the total, then you can use the MISS Strategy to find the part. Which equation can be used to find x, the total number Special Dark bars in a giant bag containing 180 candy bars altogether?



Q3: Which is a valid conclusion?

A Out of a bag of 180 bars, 90 will be regular Hershey bars.

B Less than ⅛ of the total number of candy bars are Special Dark bars.

C Out of a bag of 180 bars, 45 will be Mr. Goodbars.

D There are 4 times as many candy bars without nuts as bars with nuts.

Q4: Which graph best represents the data?

Reg. Hershey

Krackle

Special Dark

Mr. Goodbar

B.

Reg. Hershey

Krackle

Special Dark

Mr. Goodbar

A.

Reg. Hershey

Krackle

Special Dark

Mr. Goodbar

D.

Reg. Hershey

Krackle

Special Dark

Mr. Goodbar

C.

9. Ruben, Danny, Jessica, and Karen ate lunch at the Fisherman’s Wharf. The

meal was served “family style,” which means that platters of food are simply

placed on the table and individuals fill their plates (like a family at home,

hence the name). The total amount of the bill, including tax and tip, was

$51.60. Ruben paid 25% of the bill, Danny paid $\frac{1}{5}$ of the bill, Jessica paid 30%

of the bill, and Karen paid the rest. How much did each person pay?

10. Leon eagerly cashed his first pay check from his after-school job and asked his mom to drop him off at Moore Plaza; he wanted to buy a few things for himself. Leon spent ½ his paycheck on a new pair of shoes at the Shoe Rack, then spent ½ of the remaining money on 3 shirts at Old Navy. Out of the fraction of his paycheck left, Leon took the remaining $42.00 home. Q1: How much was Leon’s paycheck?

11. Matt bought an XBOX360 Premium Platinum System that regularly costs $390 on sale for 20% off, then paid an 8% sales tax. What was Matt’s final cost?

Part

 Total