

## 7.EE.3: Worksheet

### Solutions

1. Trisha has \$22.50 to spend at the movies. Her ticket is \$11.50, and she gets a large popcorn and soda. If the popcorn and soda each cost the same amount and she spends all her money, how much was the popcorn? **The popcorn was \$5.50.**
2. Jose is training for a marathon. If he ran 160.2 miles in January, 163.2 miles in February, 157.8 miles in March, and 159 miles in April, how can we use clustering to estimate how far he ran in those 6 months? **We can average each month to 160 miles, then multiply that by 6 to get  $160 \times 6 = 960$  miles.**
3. If you make \$12.50 per hour and you get an 8% raise, what's your new hourly rate? **You're making \$13.50 per hour.**
4. Francisco's recipe for cookies calls for  $\frac{3}{4}$  cup of sugar,  $2\frac{1}{2}$  cup of flour, and 3 eggs. If he wants to use half as much sugar and then triple the recipe size, how much sugar will he need? **He'll need  $\frac{9}{8}$  cups of sugar, or 1.125 cups.**
5. Penelope works after school for 4.5 hours on Mondays, Tuesdays, and Fridays. She doesn't have classes on Wednesdays or Thursdays, so she works 8 hours on each of those days. If she makes \$413 each week, what's her hourly rate? **Penelope gets paid \$14.00 per hour.**
6. Ruth is putting up a framed map of South America in her room. She wants it exactly halfway between her door and her closet, which are 6.5 feet apart. If the map is 23 inches wide, how far will its sides be from the door and closet? **Each side of the map should be 27.5 in from the door/closet.**
7. Jimmy's savings account makes 0.7% interest every month. If he put \$200 into the account 2 months ago, how much is in there now? (Round to the nearest cent.) **Now there's about \$202.81 in Jimmy's account.**
8. Tom Sawyer is painting a fence white. Each fencepost is 5 inches wide and there's 3 feet of fence between each post. If there are 4 posts and the fence starts and ends with a post, how long is the fence Tom's supposed to paint? **The fence is 128 in, or  $10\frac{2}{3}$  ft.**
9. Martha just turned 61 this year. In 3 more years, she'll be twice as old as her daughter, Mary. How old is Mary now? **Mary is 29.**
10. Cyprian heads to the Discount Jungle to pick up some firecrackers. If firecrackers are 30% off (before tax) and sales tax is 7%, how much will it cost him to buy 30 firecrackers at \$2.50 each? (Round to the nearest cent.) **He'll be paying about \$56.18.**