



Diwali Math: Time and Money

Elapsed time, division and money

Name _____ Date _____

Directions: Read each problem. Show your work, then write your answer on the line.

1. The fireworks show begins at 8:00 pm. Soni's mother wants the family to arrive thirty minutes before the show. The drive takes 15 minutes. What time does Soni's family need to leave?

2. Nirali is cooking gujyas. Cashews cost \$7 per bag and coconut costs \$2 per can. She has \$100 and wants to buy the same number of each. How many of each can she buy?

3. Kabir's guests arrive at 7:00 pm. It is now 5:30 pm. The store is 20 minutes away each way. Does he have time to go and get back? Explain.

4. Ayushi and her three friends are splitting the cost of rangoli materials equally. The materials cost \$275 in all. How much does Ayushi need to pay?

5. It takes Taran 20 minutes to fry a batch of 30 jalebi. It is 4:40 pm now and the party starts at 6:00 pm. How many jalebi can he finish before the party?

Grades 3-6 | CCSS 3.MD.A.1, 4.OA.A | Answer key on page 3 | From A Kids Book About Diwali



Diwali Math: Measurement

Converting units and comparing lengths

Name _____ Date _____

Directions: Read each problem. Show your work, then write your answer on the line.

1. Aarush and Sanjay are decorating 6 tables for their family's Diwali party. Each table is 5 feet long. Flower garlands come in 10 inch strands. How many garlands do they need to cover all the tables?

2. Kunal works for the city. He must set the fireworks a safe distance from the crowd. The fireworks need at least 150 feet. The city plans to set them off 0.3 miles from the park. Is that a safe distance? Show your work.

3. Riya wants her rangoli to measure 3 feet across. So far it measures 23 inches across. How many more inches does she need?

4. Shreya painted a Diwali banner for the front of her school. Her teacher said it can be no longer than 5 feet. Shreya's banner measures 67 inches. How many inches must she trim off?

5. Devesh is hanging string lights between two patio posts that are 10 feet apart. Each string is 2.5 feet long. How many strings does he need to reach across?

6. Kian needs about 15 liters of mango lassi. His recipe makes 3 liters at a time. By what number should he multiply the recipe?

Grades 3-6 | CCSS 4.MD.A.1, 5.MD.A.1 | Answer key on page 3 | From A Kids Book About Diwali



Diwali Math

Answer key (teacher copy)

Time and Money

#	Answer	How to solve it
1	7:15 pm	8:00 minus 30 minutes = 7:30 arrival. 7:30 minus a 15 minute drive = 7:15 pm.
2	11 of each	$\$7 + \$2 = \$9$ per pair. $\$100$ divided by $9 = 11$, with $\$1$ left over. She buys 11 bags and 11 cans, for $\$99$.
3	Yes	20 minutes there plus 20 minutes back = 40 minutes. 5:30 plus 40 minutes = 6:10 pm, so he has 50 minutes to spare.
4	\$68.75	Ayushi plus 3 friends = 4 people. $\$275$ divided by $4 = \$68.75$.
5	120 jalebi	4:40 pm to 6:00 pm = 80 minutes. 80 divided by 20 = 4 batches. $4 \times 30 = 120$ jalebi.

Measurement

#	Answer	How to solve it
1	36 garlands	6 tables $\times$ 5 feet = 30 feet = 360 inches. 360 divided by 10 = 36.
2	Yes, easily	0.3 miles = $0.3 \times 5,280 = 1,584$ feet, which is much more than 150 feet. Another way to see it: 150 feet is only about 0.028 miles.
3	13 inches	3 feet = 36 inches. 36 minus 23 = 13.
4	7 inches	5 feet = 60 inches. 67 minus 60 = 7.
5	4 strings	10 feet divided by 2.5 feet = 4.
6	Multiply by 5	15 liters divided by 3 liters = 5.

Note on this edition. Two answers have been corrected. Time and Money question 5 previously said 180 jalebi; the correct answer is 120, because 4:40 pm to 6:00 pm is 80 minutes, which allows four batches of 30. Measurement question 2 previously said 150 feet is 0.28 miles; the correct conversion is 0.028 miles. The "yes, it is safe" answer was not affected.