

Name _____



Date _____

Fractions

Complete.

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| <p>1. Nicole bought a box of stickers that looked like little white doughnuts to reinforce the pages in her notebook. There were one thousand, eight hundred ninety stickers in the box, but she could not use some of them. One-fifth of them were stuck so tightly together that she could not detach them from each other. Sixty-four of them had no holes in the center. One-seventh of them had no glue. How many were left that she could use?</p> | <p>2. It seemed like the graduation speech would last forever. Connor leaned over to his father and asked in a discreet whisper, "what time is it now?" His father told him it was one-fourth of an hour after the last time he asked. If it was 3:47 p.m. the last time he asked, what time is it now?</p> |
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Complete.

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| <p>3. Some sea turtles can swim ten 90 times faster than tortoises can walk. Based on this information, if a sea turtle can swim at a rate of 20 MPH, at what rate can some tortoises walk? Express your answer as a fraction.</p> | <p>4. In a herd of 978 zebras, about half of one percent of all animals are injured crossing a stream. How many are injured?</p> |
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Complete.

<p>5. Mr. Bloop is giving a demonstration using a water trough. This is a device used to observe (among other things) the action of water on sediments. He began with a flow rate of one and one-fourth gallons per minute (gpm) and every thirty seconds he halved the rate. Throughout the demonstration the students watched small marked stones move down the trough. What was the flow rate (in gpm) after he halved the rate four times? Express your answer as a fraction.</p>	<p>6. In a creek bed, $\frac{1}{6}$ of the gravel is less than 5 mm in diameter and $\frac{2}{3}$ of it is between 5 and 10 mm in diameter. What fraction of the gravel is greater than one centimeter in diameter?</p>
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Complete.

<p>7. Benjamin is hiking in the national park. He is on a $6\frac{1}{2}$-mile hike and he makes four evenly spaced rest stops along the way. At what mile of the hike does he make his last stop?</p>	<p>8. Two objects (very tiny space ships actually) hit a wall. Object one applied a force of $\frac{7}{13}$ of a Newton to the wall and object two applied a force of $\frac{3}{7}$ of a Newton. Prove which one applied the larger force. (force = mass x acceleration)</p>
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Complete.

<p>9. Six moles of silver nitrate followed by three moles of silver chloride are added to a vat containing 100 L of water. Of the silver that was added, what fraction came from the silver nitrate?</p>	<p>10. If a solution of MgCl is $\frac{1}{10}$ M, what will its concentration be if it is diluted by 29%? Express your answer as a fraction.</p>
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Complete.

<p>11. Courtney is training hard during the off-season to become a better pitcher. She spends 8 hours a week pitching, 3 hours a week running, and 2 hours a week lifting weights. What fraction of her training time is spent on pitching?</p>	<p>12. Austin plays shortstop for the Littleville baseball team. He is an excellent base runner. He is successful in stealing second base 88% of the time and successful stealing third base 74% of the time. He attempted to steal second 23 times and third 8 times last year. What fraction of his attempts failed?</p>
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