THIRD SPACE
LEARNING

Word Problems

11 addition and subtraction questions to develop reasoning and problem solving skills

Grade 4

Questions

Name: ....   Date: ....

1 Using the digits 0 - 9, complete the missing number calculations.
You can only use the given operation to solve the calculations.
You can use the digits as many times as you want for the different calculations.

		6	3
−	4	2	
	1		2

	3		8
+		0	1
	9	9	

	2	1		5
+	5		2	
		3	5	5

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2 Rayna's pattern has a starting number of 113 and the pattern rule is add 14. Show the first 5 terms of Rayna's pattern.

Answer

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3 There are $12\frac{5}{6}$ cups of water in a cooler. Micah drinks $2\frac{2}{6}$ cups of water from the cooler and Aman drinks $3\frac{5}{6}$ cups. How much water is left in the cooler?
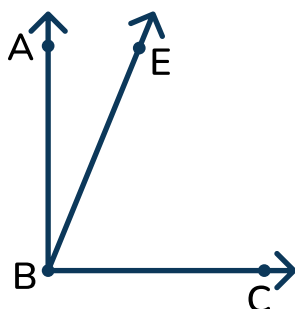
Answer

4 Najma collects science fiction posters.

She has 4,142 of them.

Laura has 2,769 in her collection.

   a How many do they have altogether?

   b How many fewer does Laura have than Najma?

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5 An airline has 4 planes and each one carries 174 passengers. Food has been ordered by the following numbers of passengers per plane:

Plane 1: 75

Plane 2: 96

Plane 3: 103

Plane 4: 151

   a How many people ordered food altogether?

   b How many people did not order food?

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6 Sawyer is measuring the angles below. She knows angle ABC is a right angle. She knows the angle EBC is 67 degrees. Explain how Sawyer can calculate the measurement of angle ABE and then solve.
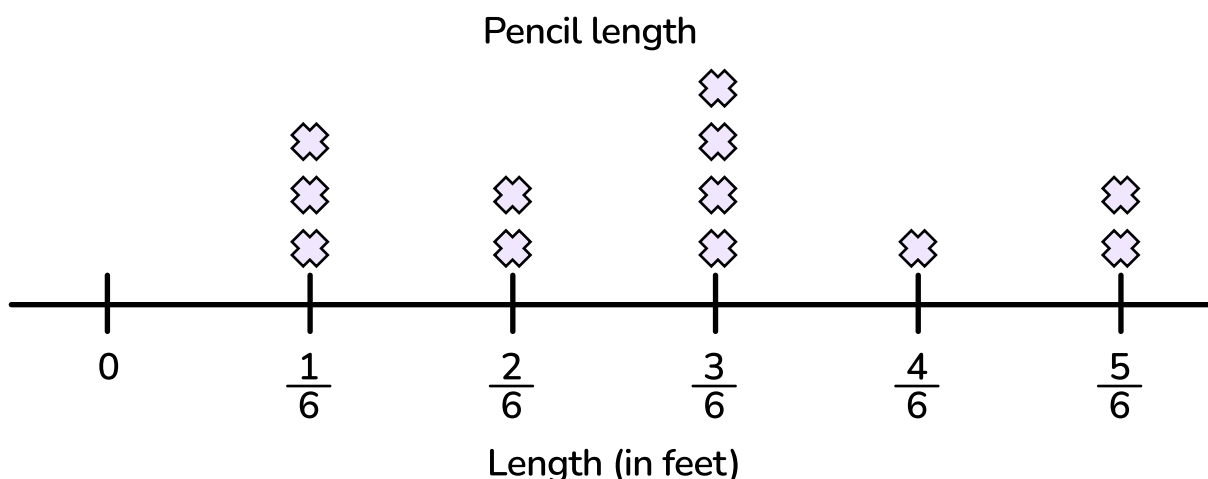
Answer

7 For a science project, Akira collects $3\frac{2}{5}$ ounces of soil from the school playground and then $4\frac{4}{5}$ ounces of soil from the school baseball field. How many ounces of soil did Akira collect in total?

Answer

8 Millie measured all the pencils in her pencil case to the nearest sixth of a foot. Her graph is below.

Pencil length

Length (in feet)

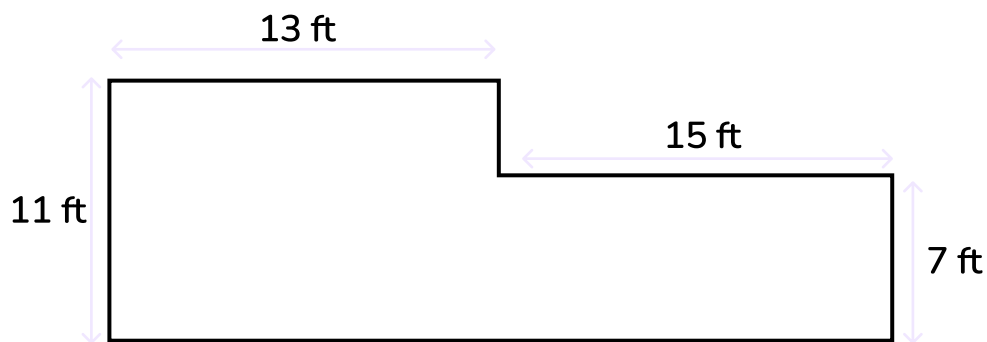What is the difference between the shortest and longest pencil?

Answer

9   Arlo solved the equation below:

$$\frac{3}{10} + \frac{5}{100} = \frac{8}{110}$$

Did Arlo solve the equation correctly? Explain why.

Answer

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10   The outline of Khadijah's garden is shown below.

How many feet of fencing does Khadijah need for the whole garden?

Answer

Challenge Question!

Roll a dice 4 times – create the largest number you can.

Roll it again 4 times – create the smallest number you can.

Write 3 different calculations using only addition or subtraction and calculate the answers.

Answer

Answers

Question number	Question	Answers	Standard
1	Using the digits 0 - 9, complete the missing number calculations. You can only use the given operation to solve the calculations. You can use the digits as many times as you want for the different calculations.	$\begin{array}{r} 5\ 6\ 3 \\ -\ 4\ 2\ 1 \\ \hline 1\ 4\ 2 \end{array}$ $\begin{array}{r} 3\ 9\ 8 \\ +\ 6\ 0\ 1 \\ \hline 9\ 9\ 9 \end{array}$ $\begin{array}{r} 2\ 1\ 3\ 5 \\ +\ 5\ 2\ 2\ 0 \\ \hline 7\ 3\ 5\ 5 \end{array}$	4.NBT.B.4
2	Rayna's pattern has a starting number of 113 and the pattern rule is add 14. Show the first 5 terms of Rayna's pattern.	113, 127, 141, 155, 169	4.OA.C.5
3	How much water is left in the cooler?	$12\ \frac{5}{6} - 2\ \frac{2}{6} = 10\ \frac{3}{6}$ $10\ \frac{3}{6} - 3\ \frac{5}{6} = 6\ \frac{4}{6}$ cups of water	4.NF.B.3d
4	a) How many do they have altogether? b) How many fewer does Laura have than Najma?	a) 6,911 b) 1,373	4.NBT.B.4
5	a) How many people ordered food altogether? b) How many people did not order food?	a) 425 b) 271	4.OA.A.3 4.NBT.B.4

Question number	Question	Answers	Standard
6	Explain how Sawyer can calculate the measurement of angle ABE and then solve. (see diagram)	Sawyer can subtraction 67 from 90, since a right angle is 90 degrees. 90 - 67 = 23 degrees	4.MD.C.7
7	How many ounces of soil did Akira collect in total?	$3\frac{2}{5} + 4\frac{4}{5} = 8\frac{1}{5}$ ounces of soil	4.NF.B.3d
8	What is the difference between the shortest and longest pencil? (see diagram)	$\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$	4.MD.B.4
9	Arlo solved the equation below: $\frac{3}{10} + \frac{5}{100} = \frac{8}{110}$ Did Arlo solve the equation correctly? Explain why.	Arlo did not solve correctly. Since $\frac{3}{10} = \frac{30}{100}$ Arlo should have added $\frac{30}{100} + \frac{5}{100} = \frac{35}{100}$. The 100 at the bottom is the size of the fraction, so you don't add that part. *Responses will vary, but should show place value thinking	4.NF.C.5
10	How many feet of fencing does Khadijah need for the whole garden? (see diagram)	13 + 4 + 15 + 7 + 28 + 11 = 78 ft	4.MD.A.3
Challenge Question	Roll a dice 4 times – create the largest number you can. Roll it again 4 times – create the smallest number you can. Write 3 different calculations using only addition or subtraction and calculate the answers.	Any calculations with the correct answer that use addition or subtraction. For example: 6666 + 1111 = 7777 6433 - 5221 = 1212	4.NBT.B.4

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