

1pt

1. Lori is running in a marathon, which is 26.2 miles long. So far, she has run one-tenth of the marathon. How far has Lori run?

2.62 miles

3pts possible

2. Use the numbers on the tiles to write the value of each expression. You can use a tile more than once or not at all.

$48.6 \div 10^0 = 48.6$ 1pt

$48.6 \div 10 = 4.86$ 1pt

. 0 4 6 8

$48.6 \div 10^2 = 0.486$ 1pt

4pts possible

3. Malcolm has 125 feet of yarn to make 100 bracelets. He uses the same amount of yarn to make each bracelet.

Part A - 1pt

Write an expression that will find the amount of yarn Malcolm uses to make one bracelet.

$125 \div 100$

Part B - 1pt

How much yarn will Malcolm use to make one bracelet?

1.25 feet

Part C - 2pts possible

Suppose the total length of the yarn stayed the same, but instead of Malcolm making 100 bracelets, he only made 10 bracelets. How would the amount of yarn he uses to make each bracelet change? Explain.

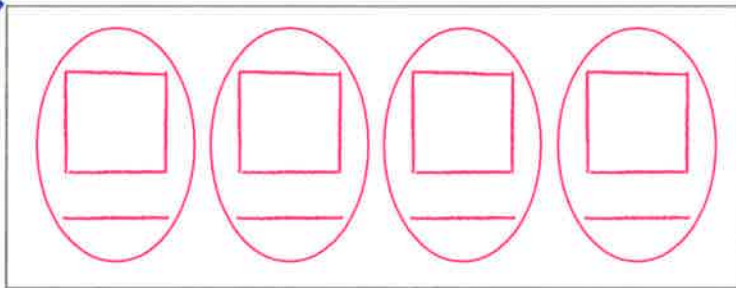
Malcolm would use 12.5 feet of yarn instead of 1.25 feet. Possible explanation: I divide the total length by 10 instead of 100.

1pt for correct answer
1 point for correct explanation



2 pts possible

4. Draw a model to show $4.4 \div 4$.



1 pt for correct representation

$4.4 \div 4 = \underline{1.1}$

1 pt for correct answer

1 pt

5. Ashleigh rode her bicycle 26.5 miles in 4 hours. She rode the same number of miles each hour. Write a division sentence using compatible numbers to estimate the distance she rode in one hour.

Possible estimate: $28 \div 4 = 7$

1 pt

6. Ellen drove 357.3 miles. For each gallon of gas, the car can travel 21 miles. Select a reasonable estimate of the number of gallons of gas Ellen used. Mark all that apply.

- (A) 1.7 gallons
- (B) 1.8 gallons
- (C) 17 gallons
- (D) 18 gallons
- (E) 170 gallons

1 pt

7. Landon bought a tray of plants for \$8.15. There were 16 plants in the tray. If Landon only bought 1 plant, about how much would it have cost?

Possible estimate: about \$0.50

1 pt

8. Mia has a spool of ribbon that is 30.5 yards long. She will cut the ribbon into 5 equal pieces to make bows. What is the length of each piece of ribbon?

6.1 yards



9. Maggie is making some floral arrangements. The table shows the prices for one-half dozen of each type of flower.

Price for $\frac{1}{2}$ Dozen Flowers

Rose	\$5.29
Carnation	\$3.59
Tulip	\$4.79

Part A

Maggie wants to buy 4 roses, 6 carnations, and 9 tulips. She estimates that she will spend about \$14 on these flowers. Do you agree? Explain your answer.

Yes; Possible explanation: A half dozen flowers is 6 flowers. The carnations will cost \$3.59. Using compatible numbers, 1 rose costs about $\$5.40 \div 6 = \0.90 and $4 \times \$0.90 = \3.60 and 1 tulip costs about $\$4.80 \div 6 = \0.80 and $9 \times \$0.80 = \7.20 . I added \$3.59, \$3.60, and \$7.20 to find the estimated cost of the flowers is \$14.39.

Part B

Along with the flowers, Maggie bought 4 packages of balloons and 2 packages of plant food. The packages of balloons cost \$3.59 each and the total sales tax was \$1.34. The total amount she paid was \$32.09, including sales tax. Explain a strategy she could use to find the cost of 1 package of plant food.

Possible explanation: I would make the following equation: cost of 4 packages of balloons + cost of flowers + cost of 2 packages of plant food + sales tax = Total spent. Then I would work backward to find the cost of 2 packages of plant food. Total spent – sales tax – cost of 4 packages of balloons – cost of flowers = cost of 2 packages of plant food. Then I would divide the cost of the 2 packages of plant food by 2 to find the cost of 1 package.

10. Grant is making small bags of dried fruit from a large bag of dried fruit that weighs 5.46 pounds. If he puts the same amount of dried fruit in each of 6 bags, how much will each bag weigh?

0.91 pounds

GO ON 

11. Divide.

1pt

$$\begin{array}{r} \boxed{0.54} \\ 6 \overline{)3.24} \end{array}$$

3pts possible

12. Mr. Loretti is buying supplies for his classroom. The table shows the prices for the different items he buys.

Classroom Supplies	
Item	Price
Pencils	\$0.28 per ounce
Pens	\$0.95
Erasers	\$0.75
Notebooks	\$0.99

Part A

1pt

Mr. Loretti spends \$0.84 on pencils. How many ounces of pencils does he buy?

3 ounces of pencils

Part B

-2pts possible

Mr. Loretti spends \$4.83 on pens and notebooks. How many of each item does he buy? Explain how you found your answer.

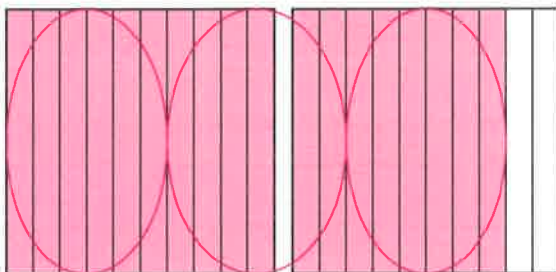
3 pens and 2 notebooks; Possible explanation: The prices of the items are close so I estimated $\$4.83 \div \$0.95: 5 \div 1 = 5$. Then I used guess and check to find a total of 5 items that had a total cost of \$4.83.

1pt for correct answer
1pt for correct explanation

13. Shade the model and circle to show $1.8 \div 0.6$.

2pts possible

$1.8 \div 0.6 = \boxed{3}$ - 1pt



1 point for correct shading & circling

GO ON

1 pt

14. Leilani bought tomatoes that cost \$0.84 per pound. She paid \$3.36 for the tomatoes. How many pounds of tomatoes did she buy? Show your work.

$0.84 \times 100 = 84$	$84 \overline{)336}$	4 pounds
$3.36 \times 100 = 336$	$\underline{-336}$	0

1 pt

15. Carly has a piece of yarn that is 7.2 yards long. She needs to cut the yarn into pieces that each measure 0.3 yard long. How many pieces of yarn can be cut that are 0.3 yard long?

24 pieces

1 pt

16. Latisha hiked along a trail that was 9.66 miles long. She hiked 4.2 miles every hour. How many hours did it take Latisha to finish hiking the trail?

2.3 hours

17. For numbers 17a–17c choose Yes or No to indicate whether a zero must be written in the dividend to find the quotient.

- | | | |
|----------------------|--------------------------------------|-------------------------------------|
| 17a. $2.5 \div 0.5$ | <input type="radio"/> Yes | <input checked="" type="radio"/> No |
| 17b. $1.8 \div 0.02$ | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| 17c. $3.3 \div 0.4$ | <input checked="" type="radio"/> Yes | <input type="radio"/> No |

1 point for each correct response

18. Tony collected 16.2 pounds of pecans from the trees on his farm. He will give the same weight of pecans to each of 12 friends. How many pounds of pecans will each friend receive?

1.35 pounds

3 pts possible

1 pt

2 pts possible

19. Josh buys cucumbers that cost \$0.62 per pound. He pays \$2.79 for the cucumbers.

Part A - 1 pt

Josh estimates he bought 5 pounds of cucumbers. Is Josh's estimate reasonable? Explain.

Yes; Possible explanation: \$0.62 is close to 6 tenths and \$2.79 is close to 30 tenths. 30 tenths divided by 6 tenths is 5, so 5 pounds of cucumbers is reasonable.

Part B - 1 pt

How many pounds of cucumbers did Josh actually buy? Show your work.

$0.62 \times 100 = 62$	$\begin{array}{r} 4.5 \text{ pounds} \\ 62 \overline{)279.0} \\ \underline{-248} \\ 310 \\ \underline{-310} \\ 0 \end{array}$
$2.79 \times 100 = 279$	

1 pt

20. Who drove the fastest? Select the correct answer.

- (A) Trevor drove 202 miles in 4 hours.
- (B) Maggie drove 330 miles in 6 hours.
- (C) Nev drove 412 miles in 8 hours.
- (D) Juanita drove 261 miles in 5 hours.

1 pt

21. Reshawn is buying 3 books in a trilogy set for \$24.81. He will save \$6.69 by buying the trilogy set instead of buying individual books. If each book costs the same amount, how much does each of the 3 books cost when purchased individually? Show your work.

\$10.50; Possible work:
 $\$24.81 + \$6.69 = \$31.50$
 $\$31.50 \div 3 = \10.50

1 pt

22. Corey spent \$17.00, including sales tax, on 2 sandwiches and 3 drinks. The sandwiches cost \$5.25 each and the total sales tax was \$0.92. Fill in the table with the correct prices.

Item	Cost
Cost of each sandwich	\$5.25
Cost of each drink	\$1.86
Cost of sales tax	\$0.92

