

Two Truths and a Lie

Materials needed:

- Dry erase boards/Markers/Erasers – for keeping score
- 6 or 10-sided Die – Even numbered roll means you identify a “Truth.” Odd numbered roll means you identify a “Lie.”

Object of the game: Score the most points by identifying the “Truths” or “Lies”

To play:

Player 1 draws a card. Each card contains a word problem and three possible ways to represent the problem in order to solve it. Two of the representations are “truths” – good ways to represent the problem. One of the options is a “lie” – not a good way to represent the problem.

The player rolls the die. If they roll an even number they must identify one “Truth” on the card. If they are correct, they earn one point.

If they roll an odd number they must identify the lie on the card. If they are correct, they get 2 points.

Keep track of the score on the dry erase board.

To win: Continue taking turns until you run out of cards. Cards are printed on both sides so be sure to answer all the cards. Winner is the player with the most points.

Printing: 2-sided, flip on short edge, black and white.

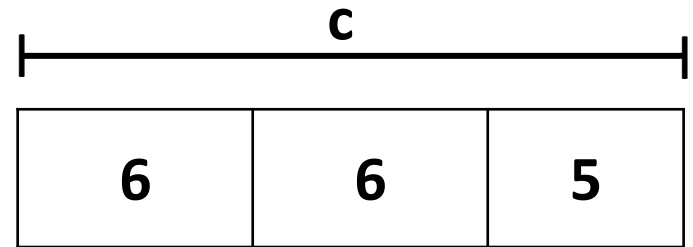
Unit: 4th - Decimals**Lesson: 4.5.A – All Operations – Representing Multi-Step Word Problems****Two Truths & a Lie**

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1 Lie = C	2 Lie = A	3 Lie = B	4 Lie = A	5 Lie = A	6 Lie = A
7 Lie = C	8 Lie = A	9 Lie = B	10 Lie = A	11 Lie = C	12 Lie = B
13 Lie = C	14 Lie = C	15 Lie = B	16 Lie = A	17 Lie = B	18 Lie = A
19 Lie = A	20 Lie = C	21 Lie = A	22 Lie = C	23 Lie = C	24 Lie = A
25 Lie = C	26 Lie = C	27 Lie = C	28 Lie = A	29 Lie = B	30 Lie = C
31 Lie = A	32 Lie = B	33 Lie = B	34 Lie = B	35 Lie = A	36 Lie = A

1. A baker made 2 batches of chocolate chip cookies. Each batch had 6 cookies in it. Then he made an additional 5 oatmeal cookies just in case someone didn't want chocolate chip. How many (c) cookies did he bake total?

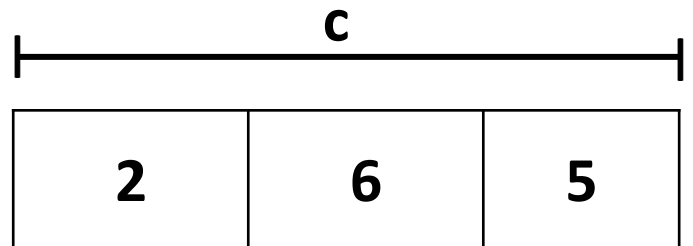
A.



B.

$$6 \times 2 = 12$$
$$12 + 5 = c$$

C.



A.

49	49	49	49	96
y				

2. Jasmine has 4 balls of yarn. Each ball contains 49 yards of yarn. Jasmine used 96 yards of yarn for a project. How many yards of yarn (y) does Jasmine have left?

C.

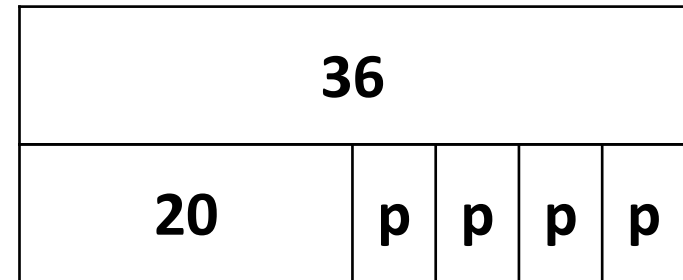
$$49 \times 4 - 96 = y$$

B.

$$49 \times 4 = 196$$
$$196 - 96 = y$$

3. The cafeteria had 36 apples. For lunch they handed out 20 to students and decided to use the rest to make pies. If each pie takes 4 apples, how many (p)pies could they make?

A.

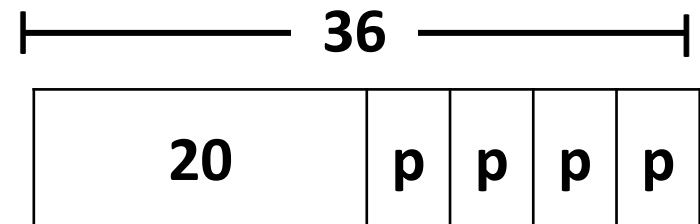


B.

$$36 - 20 = 16$$

$$36 \div 4 = p$$

C.



4. While playing a game, Nancy defeated 5 enemies with each enemy defeated earning her 9 points. If she traded in all her points for 3 extra lives, how many (L) points is it per life?

A.

5		9	
3	3	L	

B.

$$5 \times 9 = 45$$

$$45 \div 3 = L$$

C.

9	9	9	9	9
L	L	L		

5. For a project, a builder purchased 7 boxes of bolts with each box containing 11 bolts. He ended up finishing the project 6 days early and with 3 bolts left over. How many (B) bolts did he use for the project?

A.

7	11	6	3
b			

B.

$$\begin{aligned}7 \times 11 &= 77 \\ 77 - 3 &= b\end{aligned}$$

C.

$$b = 7 \times 11 - 3$$

6. Jordyn had a total of 36 eggs. She used half the eggs to make breakfast for her cousins on Monday. Then she used the rest of the eggs to make breakfast for herself for the next 6 days. She used the same number of eggs each day. How many eggs (e) did she eat each of the 6 days?

A.

36	
18	e

B.

$$\mathbf{36 \div 2 = 18}$$
$$\mathbf{18 \div 6 = e}$$

C.

$$\mathbf{36 \div 2 \div 6 = e}$$

7. Asher had 48 minutes to get his homework done. He used the first 24 minutes looking for his math book and a pencil. Then he used the rest of the time to answer the four problems in his homework. He used the same amount of time for each problem. How many minutes (m) did he spend on each problem?

A.

48				
24	m	m	m	m

B.

$$48 - 24 = 24$$
$$24 \div 4 = m$$

C.

m				
24	4	4	4	4

8. A car company makes 500 trucks every week. The company makes 200 more cars per week than trucks. How many cars and trucks (v) does the company make in one week?

A.

500	
200	500

B.

$$v = 500 + 500 + 200$$

C.

v		
500	500	200

9. The donut shop makes 200 chocolate donuts every day. They make twice as many plain iced donuts as they make chocolate donuts every day. How many donuts (d) do they make every day?

A.

d		
200	200	200

B.

$$d = 200 \times 2$$

C.

200	200	200
d		

10. A can of soda contains 12 fl oz.
Jaylen drank 3 cans of soda every day
for 6 days.

What is the total amount of (s) soda in
fluid ounces that Jaylen drank during
these 6 days?

A.

12	3	6
s		

B.

$$3 \times 12 \times 6 = s$$

C.

$$3 \times 12 = 36$$
$$36 \times 6 = s$$

11. It took Maria three years to collect 35,627 aluminum cans to recycle. In the first year she collected 10,812 cans, and in the second year she collected 8,640 cans. How many cans (c) did Maria collect in the third year?

A.

35,627		
10,812	8,640	c

B.

$$c = 35,627 - 10,812 - 8,640$$

C.

c		
10,812	8,640	35,627

12. Before the final basketball game, Carlos had scored 45 points so far in the season. Jacob had scored twice as many points as Carlos. In the final game Jacob scored 5 points and Carlos scored none. How many (p) points did Jacob score this season?

A.

p		
45	45	5

B.

$$\begin{aligned}2 \times 5 &= 10 \\ 45 - 10 &= p\end{aligned}$$

C.

$$p = 2 \times 45 + 5$$

A.

165		
65	j	j

13. Alba ate a total of 165 jellybeans in three days. On the first day, she ate 65 jellybeans. Then she ate an equal number of jellybeans on each of the next two days. How many jellybeans (j) did Alba eat on the third day?

C.

$$165 - 65 = 100$$
$$100 \div 3 = j$$

$$165 - 65 = 100$$
$$100 \div 2 = j$$

14. Deion bought 3 packages of pencils. Each package had 10 pencils in it. Then he bought 3 more packages with 5 pencils in each. How many pencils (p) did Deion buy in all?

A.

p					
10	10	10	5	5	5

B.

$$3 \times 10 = 30$$

$$3 \times 5 = 15$$

$$30 + 15 = p$$

C.

p			
3	10	3	5

15. T-Rex Mexican Restaurant had 42 avocados. They used 36 of them to garnish their enchilada plates. Then they used the rest to make guacamole salads. It takes 2 avocados to make a guacamole salad. How many (s) salads were they able to make?

A.

42		
36	s	s

B.

$$42 - 36 - 2 = s$$

C.

$$42 - 36 = 6$$
$$6 \div 2 = s$$

16. Last Saturday Alexis babysat for 9 hours and made \$10 an hour. Then she spent all her money on 6 new shirts. The shirts were all the same price. How much did each (s) shirt cost?

A.

9			\$10		
s	s	s	s	s	s

B.

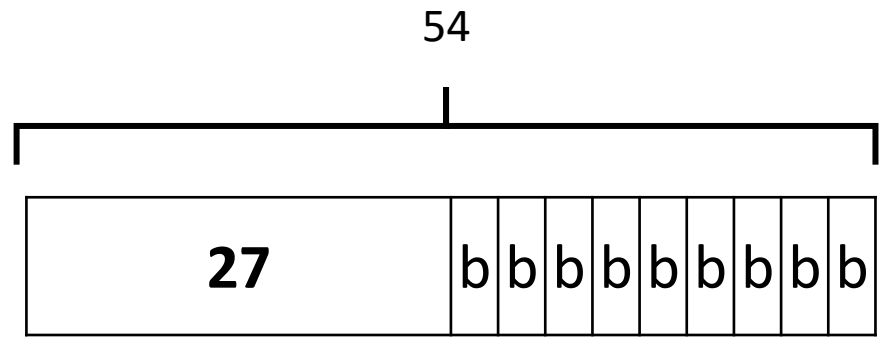
$$9 \times \$10 = \$90$$
$$\$90 \div 6 = s$$

C.

\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10
s	s	s	s	s	s			

17. Sofia had a total of 54 balloons. She used half of them to make a balloon arch for her sister's party. Then she divided the rest evenly among her 9 little cousins. How many (b) balloons did each cousin get?

A.

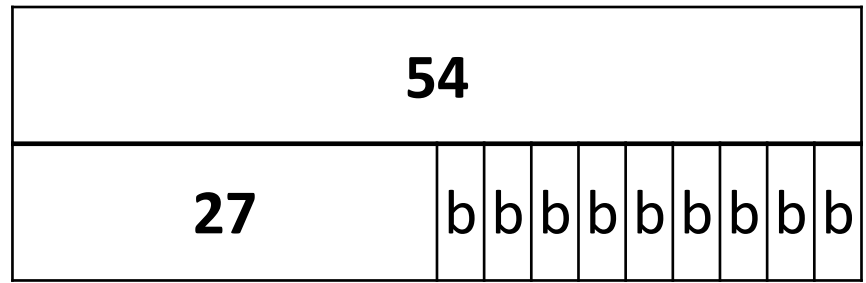


B.

$$54 \div 27 = 2$$

$$2 \times 9 = b$$

C.



18. A glass of water contains 8 fl ozs.
Mateo drank 8 glasses of water every
day for 10 days.

What is the total amount of (w) Mateo
drank during those 10 days?

A.

8	8	10
w		

B.

$$8 \times 8 \times 10 = w$$

C.

$$8 \times 8 = 64$$
$$10 \times 64 = w$$

19. Brooklyn earned \$120 for one job and \$250 from a second job. Then she paid \$100 each on her electric bill and credit card bill. How much (m) money did she have left?

A.

\$120	\$250	\$100	\$100
m			

B.

$$\begin{aligned} \$120 + \$250 &= \$370 \\ \$370 - \$100 - \$100 &= m \end{aligned}$$

C.

$$\begin{aligned} \$120 + \$250 &= \$370 \\ \$100 + \$100 &= 200 \\ \$370 - \$200 &= m \end{aligned}$$

20 Brock is planting beans for his science fair project. 27 plants are green beans. 30 plants are butter beans, and 15 plants are black beans. After a few weeks, 10 of his plants died. How many (p) plants does he have left for his project?

A.

27	30	15
10	p	

B.

$$27 + 30 + 15 = 72$$

$$72 - 10 = p$$

C.

27	30	15	10
p			

21. Jamar bought ten 12-packs of soda for his party. Each person at his party drank 3 sodas and he had 30 sodas left over. How many (p) people came to his party?

A.

10		12		
30	p	p	p	

B.

$$10 \times 12 = 120$$

$$120 - 30 = 90$$

$$90 \div 3 = p$$

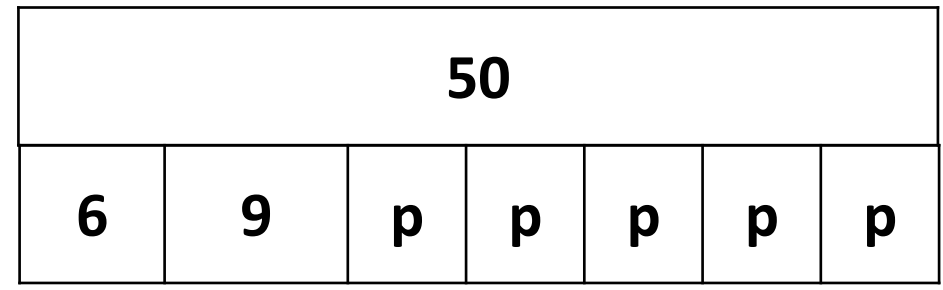
C.

$$10 \times 12 - 30 = 90$$

$$90 \div 3 = p$$

22. Alyssa wants to do 50 pushups in seven days. On the first day she did 6 and on the next day she did 9. If she does the same number of (p) pushups for each of the 5 remaining days, how many push ups should she do per day to meet her goal?

A.

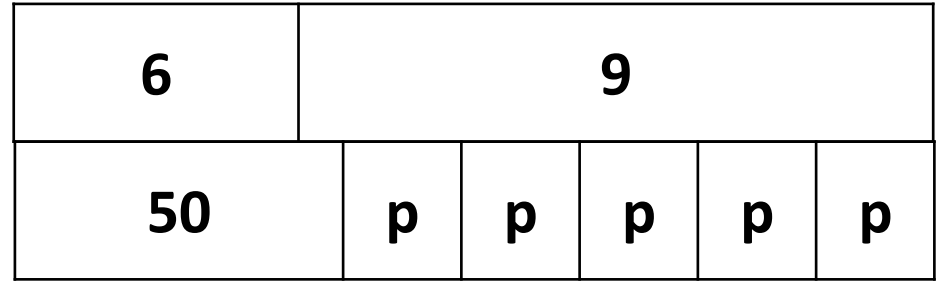


B.

$$50 - 6 - 9 = 35$$

$$35 \div 5 = p$$

C.



23. Isabella bought 3 sheets of stickers. Each sheet has 15 stickers. She wants to keep 5 for herself and split the rest up among her 4 best friends. How many (s) stickers will each friend get?

A.

15		15		15	
5	s	s	s	s	s

B.

$$\begin{aligned} 15 \times 3 &= 45 \\ 45 - 5 &= 40 \\ 40 \div 4 &= p \end{aligned}$$

C.

$$\begin{aligned} 15 \times 3 + 5 &= 50 \\ 50 \div 4 &= p \end{aligned}$$

24. Lucas is trying to eat more fruit. He has a goal of eating 15 pieces of fruit in the next 5 days. On the first day he ate 4, but on the next day he only ate 2. How many pieces of (f) fruit does he need to eat the rest of the time to meet his goal?

A.

4				2
15	15	15	15	15

B.

$$f = 15 - 4 - 2$$

C.

$$4 + 2 = 6$$
$$15 - 6 = f$$

25. Crystal mowed 4 lawns and made \$25 on each lawn. She had to spend \$10 on gas. She will use the rest of the money to pay for lunches for the next 6 days. How much (m) money per day will she have to spend on lunches?

A.

\$25	\$25	\$25	\$25			
\$10	m	m	m	m	m	m

B.

$$\begin{aligned} \$25 \times 4 &= \$100 \\ \$100 - \$10 &= 90 \\ \$90 \div 6 &= m \end{aligned}$$

C.

\$25	\$25	\$25	\$25
\$10	6	m	

26. Dayton had a huge collection of 405 comic books. He gave away 120 of them and then he divided the rest evenly among 5 boxes. How many (c) comic books are in each box?

A.

405					
120	c	c	c	c	c

B.

$$405 - 120 = 285$$
$$285 \div 5 = c$$

C.

$$405 \div 5 = 81$$
$$81 + 120 = c$$

27. Anthony is organizing a food drive to help provide food for 5 families. He collected 7 cans of food on Monday, 8 cans of food on Tuesday, 14 cans of food on Wednesday and 21 cans on Thursday . He will give each family the same number of cans. How many (c)cans will each family receive?

A.

7	8	14	21	
c	c	c	c	c

B.

$$7 + 8 + 14 + 21 = 50$$

$$50 \div 5 = c$$

C.

5	5	5	5	5
7	8	14	21	c

28. Aniyah bought 5 boxes of pens. Each box contains 24 pens. She kept 12 to use at home, and she wants to use the rest at school, but she wants them to last the whole school year. There are four 9-week grading periods in a year. How many (p) pens can she use per 9-weeks if she wants them to last all year?

A.

p				
24	24	24	24	12

B.

$$\begin{aligned}24 \times 5 &= 120 \\120 - 12 &= 108 \\108 \div 4 &= p\end{aligned}$$

C.

$$\begin{aligned}24 \times 5 - 12 &= 108 \\108 \div 4 &= p\end{aligned}$$

29. Martina has \$10. At the ice cream shop, she bought 2 large cones for \$3 each and 2 small cones for \$1.50 each. How much (c)change should she get from her \$10 bill?

A.

\$10				
\$3	\$3	\$1.50	\$1.50	c

B.

$$\begin{aligned}
 &\$1.50 + 3.00 = \$4.50 \\
 &\$10 - \$4.50 = c
 \end{aligned}$$

C.

\$3	\$3	\$1.50	\$1.50	c
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30. Emma got some money for her birthday. She got one \$20 bill, three \$10 bills, two \$5 bills and six \$1 bills. She spent \$17 on a movie, popcorn and a drink. How much (m) money does she have left?

A.

\$20	\$10	\$10	\$10	\$5	\$5	\$1	\$1	\$1	\$1	\$1	\$1
\$17	m										

B.

$$\begin{aligned}
 3 \times \$10 &= 30 \\
 2 \times \$5 &= 10 \\
 \$20 + \$30 + \$10 + \$6 &= \$66 \\
 \$66 - \$17 &= m
 \end{aligned}$$

C.

$$\begin{aligned}
 \$20 + \$10 + \$5 + \$6 &= \$41 \\
 \$41 - 17 &= m
 \end{aligned}$$

31. Finn is saving his money to buy a new bike. It costs \$210. In January he saved \$50. In February he saved \$30 and in March he saved \$60. How much more (m) money does he need to save?

A.

\$50	\$30	\$60	
\$210			m

B.

$$\mathbf{\$210 - \$50 - \$30 - \$60 = m}$$

C.

\$210			
\$50	\$30	\$60	m

32. Caleb and Chloe are organizing the pictures they took at Christmas. Caleb took 75 pictures. Chloe took 55. They are sending 30 to their grandmother and they plan to divide the rest evenly among 4 photo albums. How many (p) pictures will go in each album?

A.

75		55		
30	p	p	p	p

B.

$$\begin{aligned}75 + 55 &= 130 \\ 130 \div 4 &= p\end{aligned}$$

C.

$$\begin{aligned}75 + 55 &= 130 \\ 130 - 30 &= 100 \\ 100 \div 4 &= p\end{aligned}$$

33. Brianna spent \$190 shopping last weekend. She bought a pair of tennis shoes and 4 pairs of pants. The tennis shoes cost \$70. The pants all cost the same. How much did each (p) pair of pants cost?

A.

\$190				
\$70	p	p	p	p

B.

$$\begin{aligned} \$190 + \$70 &= \$260 \\ \$260 \div 4 &= p \end{aligned}$$

C.

$$\begin{aligned} \$190 - \$70 &= \$120 \\ \$120 \div 4 &= p \end{aligned}$$

34. Camila is a cheerleader. Her cheer team is raising money to go to competition. So far, the 6 girls have each raised \$72. They need \$675 in all. How much more (m) money do they need to raise?

A.

\$675						
\$72	\$72	\$72	\$72	\$72	\$72	m

B.

$$\begin{aligned} \$675 \div 6 &= \$113 \\ \$113 - \$72 &= m \end{aligned}$$

C.

$$\begin{aligned} 6 \times \$72 &= \$432 \\ \$675 - \$432 &= m \end{aligned}$$

35. Isaac has been saving a jar of coins for a long time. He has 283 coins all together. 78 of them are quarters and 115 are dimes. The rest of the (c) coins are divided evenly between pennies and nickels. How many nickels does Isaac have?

A.

283	78	115
c	c	

B.

$$\mathbf{283 - 78 - 115 = 90}$$
$$\mathbf{90 \div 2 = c}$$

C.

283			
78	115	c	c

36. Dani's Diner sold 1,277 blue plate specials this month. 420 Chicken specials. 395 hamburger specials and the rest were split evenly between three pasta specials: spaghetti, ravioli and fettuccini. How many of each (p) pasta special did Dani sell?

A.

p		p		p	
420	395	1,277			

B.

$$1,277 - 420 - 395 = 462$$

$$462 \div 3 = p$$

C.

1,277				
420	395	p	p	p