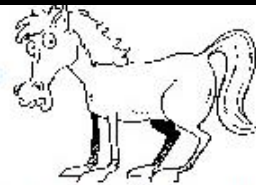


Grade : VII

SUBMISSION DATE

06-01-2019

## What Did the Horse Say When It Fell Down?



Use the information given to complete each table. For table cells that have letters, write the letter in the space under the box containing that answer.

1. The larger of two numbers is 2 less than 3 times the smaller.

smaller number	larger number	sum of the numbers
3		
8		
60		
$x$		

EXTRA: Find the numbers if their sum is 42.

2. Jill's score is 5 more than twice Jack's score.

Jack's score	Jill's score	sum of the scores
4		
15		
120		
$x$		

EXTRA: Find the scores if their sum is 95.

3. Alpha's age is 1 year less than 4 times Beta's age.

Beta's age	Alpha's age	sum of the ages
3		
10		
18		
$x$		

EXTRA: Find the ages if their sum is 74.

238	20	89	$4x - 2$	14	50	$4x + 3$	49	10	$5x - 1$	365	348	17	30	$3x + 5$
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4. Three numbers are consecutive even integers.

first integer	second integer	third integer	sum of the integers
6			
-6			
-90			
$x$			

EXTRA: Find the integers if their sum is 72.

5. Side  $b$  of a triangle is twice as long as side  $a$ , and side  $c$  is 4 cm longer than side  $b$ .

Side $a$ (cm)	Side $b$ (cm)	Side $c$ (cm)	Perimeter (cm)
7			
12			
45			
$x$			

EXTRA: Find the side lengths if the perimeter is 94 cm.

6. The length of a rectangle is 3 cm less than twice the width.

Width (cm)	Length (cm)	Perimeter (cm)
9		
24		
80		
$x$		

EXTRA: Find the side lengths if the perimeter is 222 cm

$5x - 8$	64	52	$3x + 6$	474	24	$5x + 4$	456	138	-264	$6x - 6$	39	229	48	-12
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Find percentages of amounts.

1. Match the question cards to the answers.

50% of 240

25% of 400

20% of 300

40% of 500

50% of 300

10% of 700

100

70

60

120

200

150

2. Fill in the boxes using < > or =

50% of 48

25% of 100

10% of 300

20% of 150

40% of 50

80% of 20

3.

$$25\% \text{ of } \boxed{P} = \boxed{Q}$$

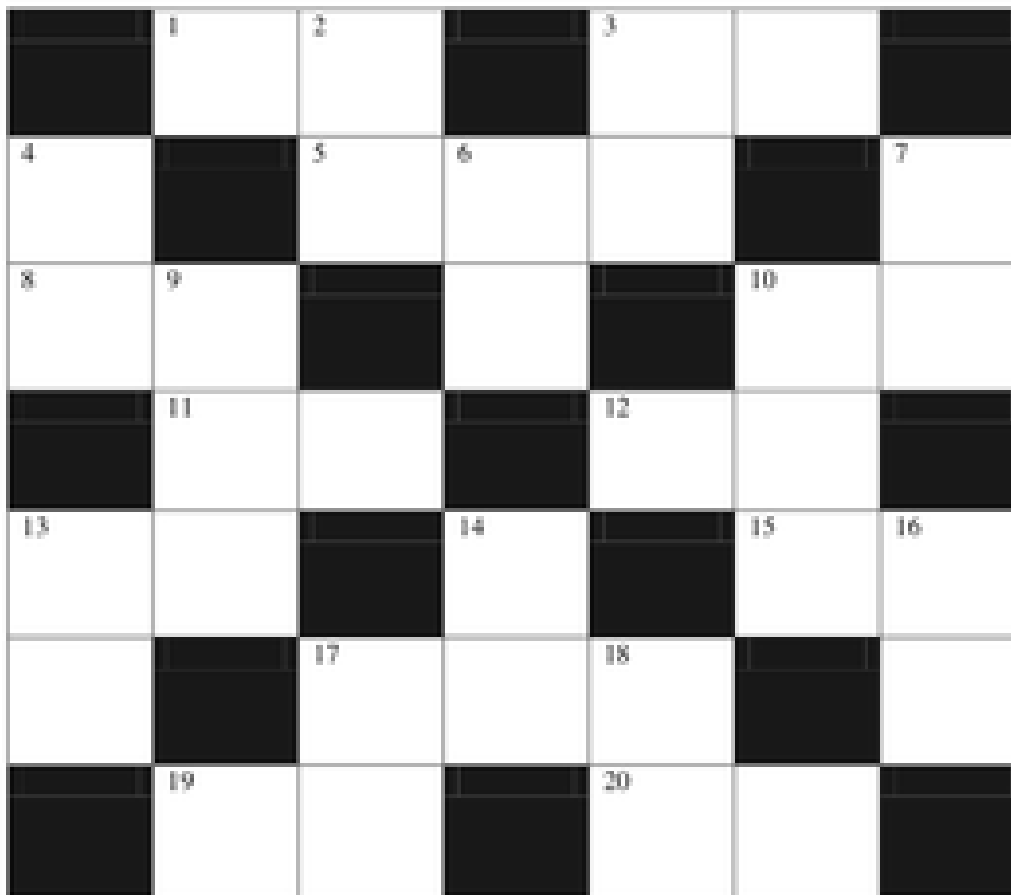
$$\frac{1}{5} \text{ of } \boxed{Q} = \boxed{R}$$

$$10\% \text{ of } \boxed{R} = 7$$

Calculate  $\boxed{P} + \boxed{R}$

# Equations Crossnumber

Complete the puzzle by solving the equations which make up the clues.



## Across

- $\frac{1}{3} = 8$
- $5x + 6 = 56$
- $3x = 969$
- $\frac{1}{7} = 6$
- $3x + 20 = 7x - 20$
- $2x - 14 = x + 1$
- $10x - 20 = 5x + 90$
- $x + 9 = 40$
- $6x - 6 = 2x + 178$
- $\frac{1}{3} = 131$
- $4x = 200$
- $2x - 4 = 84$

## Down

- $x + 43 = 2x$
- $2x + 5 = 3x - 8$
- $\frac{1}{4} = 16$
- $4x + 30 = 9x - 70$
- $8x + 10 = 7x + 40$
- $2x = 422$
- $5x = 3x + 248$
- $\frac{1}{5} = 7$
- $3x + 3 = 60$
- $10x = 600$
- $3x + 3 = 93$
- $2x + 2 = 70$