

Solving simple equations worksheet answer key 6th class mathematics

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Multi-Step Word Problems	
1. Sandra read 3 books. She read one book and borrowed one book. One book cost \$10 and the other two books cost \$12 each. How much did Sandra pay for all three books?	
2. In Science class, Sam recorded four test taken for 4 different experiments. The first experiment had a score of 85, the second had a score of 90, the third had a score of 88 and the fourth had a score of 92. What was the average score for all four experiments?	
3. Brian and his brother combined their allowance of \$7 each, so they could buy a toy. Brian has 3 quarters and his brother has 2 dimes. How many nickels were needed for each of the other two coins?	
4. Brian can type 10 words per minute on his phone. After he lost his pen, he had to use his hand to write a word, and he could only type 4 words per minute. If he typed 100 words, how many more words did he type with his hands than with his fingers?	
5. When Brian's mom went shopping, she started saving money for a television. She managed to save \$100 and spent \$40 on a new television. She then spent another \$10 on a new television remote. How many dollars does she have exactly enough for the television if it costs much more than \$100?	
6. Anne and Curtis took a beginner's programming course over several weekends that showed them how to make simple video games. They spent most of their weekend hours working on the game. Anne spent 10 hours on her game and Curtis spent 12 hours on his. Both of them spent 1 hour on their final project. How many hours did they spend on their course?	
7. Bob Cat: How many hours do you think they spent on their course? Show your work.	

Name _____ Date _____



RATIO PROBLEMS 3 - At the zoo

1) At the zoo, the ratio of elephants to hippos is 1:2. So for every elephant, there are 2 hippos.

a) If there were 3 elephants at the zoo, how many hippos would there be? _____



b) If there were 10 hippos, how many elephants? _____

2) At the zoo, the ratio of monkeys to gorillas is 5:1.

a) If there were 20 monkeys, how many gorillas would there be? _____

b) If there were 7 gorillas, how many monkeys? _____

3) At the zoo, the ratio of dolphins to penguins is 2:5. So for every 2 dolphins, there are 5 penguins.

a) If the zoo had 6 dolphins, how many penguins would there be? _____

b) If the zoo had 30 penguins, how many dolphins would it have? _____

c) If the zoo had 10 dolphins, how many penguins would it have? _____

4) The ratio of snakes to lizards in the zoo is 3:2.

a) If there were 10 lizards, how many snakes would there be? _____



b) If there were 9 snakes, how many lizards? _____

c) If the number of snakes in the zoo increased by 6. How many more lizards would the zoo need to get to keep the same ratio? _____

d) If the total number of snakes and lizards at the zoo was 20, how many snakes and how many lizards would there be? _____ snakes, _____ lizards.



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Shape	Volume Formula	Surface Area Formula
Cube	s^3 where s = length of the side	$6s^2$ where s = length of the side
Cuboid	lwh where l = length, w = width, h = height	$2(lw + lh + wh)$ where l = length, w = width, h = height
Prism	$\text{area of base} \times \text{height}$	$2 \times \text{area of base} + \text{perimeter of base} \times \text{height}$
Cylinder	$\pi r^2 h$ where r = radius, h = height	$2\pi r(r + h)$ where r = radius, h = height
Hollow Cylinder	$\pi h(R^2 - r^2)$ where R = radius of the outer surface, r = radius of the inner surface	$2\pi rh + 2\pi Rh + 2(\pi R^2 - \pi r^2)$ where R = radius of the outer surface, r = radius of the inner surface
Cone	$\frac{1}{3}\pi r^2 h$ where r = radius, h = height	$\pi r(r + s)$ where r = radius, s = slant height
Pyramid	$\frac{1}{3}Bh$ where B = area of base, h = height	Any pyramid = area of base + area of each of the lateral faces Regular pyramid = area of base + $\frac{1}{2}ps$ where p = perimeter of the base, s = slant height Square pyramid = $b^2 + 2bs$ where b = length of the base, s = slant height
Sphere	$\frac{4}{3}\pi r^3$ where r = radius	$4\pi r^2$ where r = radius
Hemisphere	$\frac{2}{3}\pi r^3$ where r = radius	$3\pi r^2$ where r = radius

PRE-ALGEBRA	
$1 \cdot y + 3$	$3 \cdot y + 1$
$2 \cdot x + 6$	$6 \cdot x + 4$
$3 \cdot x + 9$	$9 \cdot x + 5$
$4 \cdot y + 2$	$10 \cdot y + 2$
$5 \cdot y + 3$	$11 \cdot y + 4$
$6 \cdot x + 5$	$12 \cdot x + 3$



Section A

Find the solutions to the following equations.

1) $(x + 2)(x + 3) = 0$	4) $(4x + 8)(2x - 8) = 0$
2) $(4x + 3)(x - 3) = 0$	5) $(5x - 15)(4x - 2) = 0$
3) $(2x - 5)(3x + 2) = 0$	6) $(9x - 12)(5x + 20) = 0$

Solve the following equations by factorising.

Section B

1) $x^2 + 8x + 15 = 0$	6) $x^2 + 11x - 26 = 0$
2) $x^2 - 7x + 12 = 0$	7) $x^2 - 5x - 24 = 0$
3) $x^2 + 2x - 15 = 0$	8) $14 + x^2 + 9x = 0$
4) $x^2 - 11x + 28 = 0$	9) $7 + x^2 - 18x = -25$
5) $x^2 - x - 30 = 0$	10) $x^2 = 17x - 72$

Section C

1) $x^2 - 9 = 0$	6) $x^2 - 20 = 5$
2) $x^2 - 121 = 0$	7) $x^2 - 101 = -1$
3) $x^2 - 49 = 0$	8) $4x^2 - 17 = -1$
4) $2x^2 - 128 = 0$	9) $3x^2 - 16 = 227$
5) $4x^2 - 64 = 0$	10) $3x^2 - 55 = 53$

Section D

1) $2x^2 + 15x + 25 = 0$	4) $12x^2 - 28x - 5 = 0$
2) $2x^2 - 7x - 15 = 0$	5) $28x^2 - 85x + 63 = 0$
3) $3x^2 + 14x - 24 = 0$	6) $19x - 12 - 5x^2 = 0$

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Algebra . Level 9 . Equations . Solving Quadratic Equations (B)

learn why the Common Core is important for your child. What parents should know; Myths vs. facts In the first call to the function, we only define the argument a , which is a mandatory, positional argument. In the second call, we define a and n , in the order they are defined in the function. Finally, in the third call, we define a as a positional argument, and n as a keyword argument.. If all of the arguments are optional, we can even call the function with no arguments. Math ppt, online answer key for glencoe mathematics course 1 +workbook, easy way to completing squares, how to solve fraction linear equations, english law homework sheet. Rules for converting radicals to rational exponents, hardest maths equation, aptitude question paper, aptitude question, step by step prealgebra, standard to vertex form easy. 27/1/2019 · Below is the RG2 worksheet which will determine your prior knowledge about the topic. Answer the main question: What are the ways to determine the position in a set of data? Write your answer in the Ready part the RG2 Worksheet. RG2 Worksheet Ready : Get set : Go : Write your initial definition of the different measures of position. Civil Engineering Reference Manual for the PE Exam Fourteenth Edition I am a 50+ who decided to go back to school late in life. I need to take College Algebra to obtain my degree. To avoid prerequisite math classes, I needed to pass their placement test. It has been a "a few years" since I took a math class. Games with adding and subtracting unlike fractions, "algebra classes" computer, math tutor online, solving simple radical equations and algebra 2 worksheets, matlab solve, Precalculus Math problem solver. Using EXCEL Calculate circumference of an pse, absolute value equations worksheet, scientefic calculator. Travel through time by exploring Hollywood.com's entertainment news archives, with 30+ years of entertainment news content.

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