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Proportion Word Problems

Date _____ Period _____

Answer each question and round your answer to the nearest whole number.

- 1) If you can buy one can of pineapple chunks for \$2 then how many can you buy with \$10?
5
- 2) One jar of crushed ginger costs \$2. How many jars can you buy for \$4?
2
- 3) One cantaloupe costs \$2. How many cantaloupes can you buy for \$6?
3
- 4) One package of blueberries costs \$3. How many packages of blueberries can you buy for \$9?
3
- 5) Shawna reduced the size of a rectangle to a height of 2 in. What is the new width if it was originally 24 in wide and 12 in tall?
4 in
- 6) Ming was planning a trip to Western Samoa. Before going, she did some research and learned that the exchange rate is 6 Tala for \$2. How many Tala would she get if she exchanged \$6?
18 Tala
- 7) Jasmine bought 32 kiwi fruit for \$16. How many kiwi can Lisa buy if she has \$4?
8
- 8) If you can buy four bulbs of elephant garlic for \$8 then how many can you buy with \$32?
16
- 9) One bunch of seedless black grapes costs \$2. How many bunches can you buy for \$20?
10
- 10) The money used in Jordan is called the Dinar. The exchange rate is \$3 to 2 Dinars. Find how many dollars you would receive if you exchanged 22 Dinars.
\$33

-1-

3 Methods to Solving Systems:

Graphing

BOTH equations must be written as $y = mx + b$

graph both lines and see where they meet!

Substitution

Single out x or y and create a blob.

$x = \text{blob}$ or
 $y = \text{blob}$

Elimination

LINE 'EM UP!
Look for matching coefficients.
add/subtract to eliminate!

L7
Grade 7
Progression: Quick**Factorising Expressions (B)**

Factorise the following expressions fully.

Section A

- 1) $8x + 24$
- 2) $15 + 25y$
- 3) $32 - 40w$
- 4) $18c - 36$
- 5) $16d^2 - 4d$
- 6) $12s + 60s^2$
- 7) $21xy + 14x$
- 8) $27ab - 18a^2$
- 9) $12s^2t + 28s$
- 10) $72wz + 45w^2z$
- 11) $22x^2y - 55xy^2$
- 12) $16k^3 + 24k^2$
- 13) $9h^2g - 15h^3$
- 14) $12c^2d^2 + 20c^3$
- 15) $28a^2b^2 - 7a^2b$
- 16) $60x^2y^3 - 35xy^2$
- 17) $88s^4t + 56s^3t^2$
- 18) $36p^3q^4 - 48p^4q^2$

Section B

- 1) $6 - 12gh + 3h$
- 2) $21st - 7t + 14$
- 3) $22 - 44vw + 11v$
- 4) $4ab + 2b - abc$
- 5) $5sv - 10sv + 15su$
- 6) $16xy + 24y - 8xyz$
- 7) $9wu - 27wuv + 45w$
- 8) $24gh - 12g + 15h$
- 9) $132pqr - 96qr + 108pqrs$
- 10) $2x + xy - x^2$
- 11) $5k^2 - 10k + k$
- 12) $9cd - 3c^2d + 12c$
- 13) $7xyz + xy^2 - x^2y$
- 14) $e^2f - 5e^3f + e^2$
- 15) $8st^2u - 32s^2t + 64st$
- 16) $12g^3h - 9g^2h^2 + 18g^2h$
- 17) $\frac{1}{2}ab + \frac{3}{4}a^2 - a$
- 18) $\frac{3}{4}x^4y - x^2y^3 + \frac{1}{2}x^3y^2$

Classifying Conic Sections

Classify each conic section.

1) $x^2 + y^2 = 30$

2) $x^2 + y^2 = 36$

3) $\frac{x^2}{9} + \frac{y^2}{16} = 1$

4) $x = y^2$

5) $x = (y + 4)^2 - 2$

6) $\frac{y^2}{25} - \frac{x^2}{25} = 1$

7) $y = (x - 1)^2 + 3$

8) $(x - 1)^2 + \frac{y^2}{25} = 1$

Classify each conic section and write its equation in standard form.

9) $-x^2 + 10x + y - 21 = 0$

10) $-2y^2 + x - 20y - 49 = 0$

11) $x^2 + 2x + y - 1 = 0$

12) $x^2 + y^2 + 6x - 2y + 9 = 0$

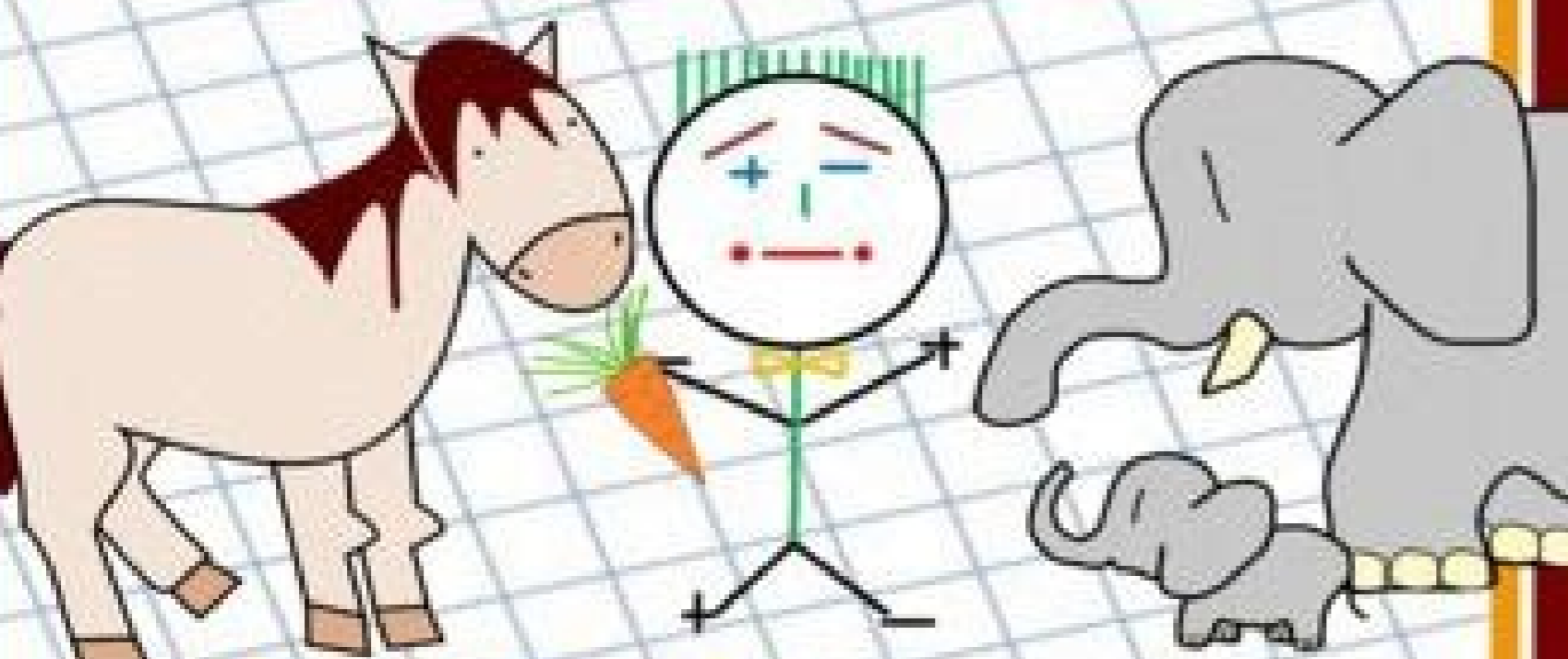
13) $x^2 - y^2 - 2x - 8 = 0$

14) $3x^2 + 30x + y + 79 = 0$

15) $-9x^2 + y^2 - 72x - 153 = 0$

16) $-y^2 + x + 8y - 17 = 0$

Normal Distributions Worksheet



By MR. SLOPE GUY

This NON-calculator unit is designed for math department chairs, specialists, coaches, administrators, lead teachers, and classroom teachers. It contains IMPORTANT information you need to cover Virginia SOL A.9 and AII.11 (Z-Scores, Standard Deviation, Normal Curve, Empirical Rule) properly. Please enjoy. If you have any questions or comments, please do not hesitate to contact me at turner31@gmail.com. I appreciate your feedback! Thanks for your purchase.

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product contains 1, % Composition & Stoichiometry Test, a mole, molecule, mass quiz and a stoichiometry quiz. Combined these 3 chemistry assessments are 8 pages long and they all contain an answer key. It is a great study tool for students to get ready for chemistry tests, since they can check their answers!The topics covered in these assessments are calculating the mass percent, percent composition, empirical formula, molecular formula, and converting between moles, mass and particlesPage 26this file includes a 15 day unit plan and video links for teaching about the mole the file includes 8 sections of work, 2 labs, one inclass assignment, and a unit review. answers are provided for all and have been checked and rechecked by my classes over the years. links to videos i have made for my students are included as well. topics include, moles, molecules, Avogadro's number, mass to mass problems, limiting reagents, % composition, empirical and molecular and nuclear chemistry you can

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