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### Translation of Shapes

Sheet 1

Write a rule to describe each translation.

1)

2)

3)

4)

5)

6)

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6. The diagram below shows a ball bearing being measured using a micrometer.

What is the diameter of the ball bearing?

A. 2.25 mm      C. 2.75 mm  
B. 2.75 mm      D. 3.75 mm

7. Which of the following statements is NOT true of a micrometer screw gauge?

A. It has accuracy of 0.01 mm.  
B. It can be used to measure the thickness of your hair.  
C. It can be used to measure diameter of metal.  
D. Ratchet knob should be used to tighten the object between the spindles an small.

8. The diagram shows a small plastic ball sandwiched between the jaws of the vernier caliper. What is the diameter?

A. 7.7 mm      C. 7.9 mm  
B. 7.8 mm      D. 8.8 mm

9. Rang is required to determine the thickness of a ream of 500 sheets of A4 size printing paper. This is repeated with a micrometer, pair of vernier calipers and plastic ruler.

(a) (i) Suggest the instrument that is most suitable from him to measure the thickness of a ream of paper.  
(ii) Explain your choice.

### Vector Addition

$\vec{A} + \vec{B} = \vec{R}$  written in symbols

resolution of vectors into x & y components

graphic addition of components

algebraic addition of components

vector	magnitude	direction	components
	r	$\theta$	x y
A	r	$\theta$	$x=r(\cos\theta)$ $y=r(\sin\theta)$
B	r	$\theta$	$x=r(\cos\theta)$ $y=r(\sin\theta)$
R	r	$\theta$	$x = x + x$ $y = y + y$
Resultant			$r = \sqrt{x^2 + y^2}$ $\tan \theta = \frac{y}{x}$

### Algebra Part 3

Unit 6 Final Review

Name: Key Date: \_\_\_\_\_

Part I. Multiple Choice.

1. Solve the inequality:  $x + 5 > -8$

a)  $x > -13$   
b)  $x < 13$   
c)  $x > 13$   
d)  $x < -13$

2. Solve the equation:  $5|x + 4| - 8 = -3$

a)  $x = -5, x = -3$   
b)  $x = 3, x = 5$   
c) infinite solutions  
d) no solution

3. Solve the inequality:  $\frac{1}{2}x - 8 \leq 14$

a)  $x \leq 44$   
b)  $x \leq -44$   
c)  $x \leq -4$   
d)  $x \geq 4$

4. Which inequality matches the graph?

a)  $2 < x < 3$   
b)  $-3 \leq x \leq 2$   
c)  $-3 > x > 2$   
d)  $2 \geq x \geq 3$

Equation	Solution
$x + 5 = 10$	$x = 5$
$x - 3 = 7$	$x = 10$
$2x + 1 = 5$	$x = 2$
$3x - 2 = 4$	$x = 2$
$4x + 3 = 11$	$x = 2$
$5x - 4 = 6$	$x = 2$
$6x + 5 = 17$	$x = 2$
$7x - 6 = 8$	$x = 2$
$8x + 7 = 23$	$x = 2$
$9x - 8 = 10$	$x = 2$
$10x + 9 = 29$	$x = 2$
$11x - 10 = 11$	$x = 2$
$12x + 11 = 35$	$x = 2$
$13x - 12 = 13$	$x = 2$
$14x + 13 = 41$	$x = 2$
$15x - 14 = 15$	$x = 2$
$16x + 15 = 47$	$x = 2$
$17x - 16 = 17$	$x = 2$
$18x + 17 = 55$	$x = 2$
$19x - 18 = 19$	$x = 2$
$20x + 19 = 59$	$x = 2$

Single step equations worksheet pdf.

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So pick a topic and start your learning journey! # A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Math Worksheets by Grade: Math Worksheets for Grades 1 to 10 Math worksheets are available for students of all grades from grade 1 to grade 10. Click on your grade below to access the worksheets of the topics from the grade. Topic-wise Math Worksheets The best way to learn any topic is by solving practice problems. You can find several well-organized worksheets on all mathematical topics below. Printable Free Math Worksheets - Grade 1 to 8 Math worksheets consist of a variety of questions like Multiple choice questions (MCQs), Fill in the Blanks, essay format questions, matching questions, drag and drop questions, and many more. These Grade 1 to 8 math worksheets have visual simulations which help students see things in action and get an in-depth understanding of the topics. Kindergarten Math Worksheets 1st Grade Math Worksheets 2nd Grade Math Worksheets 3rd Grade Math Worksheets 4th Grade Math Worksheets 5th Grade Math Worksheets 6th Grade Math Worksheets 7th Grade Worksheets Eighteenth grade math worksheets Benefits of mathematical worksheets Math worksheets can offer various benefits and can help in effective learning. It can help students increase their logical thinking. These skills are important and can give students a lifetime advantage. These worksheets can improve students' learning to a large extent, giving them a solid mathematical basis. Solving math worksheets based on different topics can also boost a student's trust and help them score well in school and competitive exams. Why is mathematics worksheet important for students? Math worksheets play a very important role in learning concepts clearly. Help the teacher assign questions related to all topics of children in the form of worksheets. Practicing these mathematical worksheets regularly helps students improve their speed and accuracy by understanding the concepts clearly. Organizing completed worksheets would help parents track the child's progress. Math worksheets help children to be active. It helps children to review and give more clarity about concepts and children tend to always remember it. Math worksheets consist of a dynamic set of questions that lead to understanding of each topic. It helps both students and parents. Young children have extraordinary learning skills and learn more quickly through experimental activities. Free interactive math worksheets for students, parents and teachers Each math worksheet adapts etnematla etnematla ortseun rop sotrepxe rop sadazæsid odis nah euq esalc us ne acitc;Árp ed ojabart ed sajh serojem sal jÁrdnetbo ojh us ,htameuC amargorp le noC .rahucitrap odary us ne jÁrednerpa oæÁin le euq sotpecnoc ed atelpmoc amag al arap selbinopsid n;Áratse sacit;Ámetam ed ojabart ed sajh saL .ose ed amicne rop rilaserbos a oæÁin la eÁfased euq onis ,æiuecæ al ne odæzlaer ejæzlerpa le atnemelpmoc olos on euq razitnarag arap curriculum team. Our math worksheets exist to achieve two goals: To facilitate a clear understanding of concepts and reinforce the importance of internalizing first principles. To aid in the retention of concepts gained via targeted practice. Math worksheets are documents available online or offline that consist of a list of practice questions on a particular topic. They are driven towards supplementing a child's learning at school and help him to improve his mathematical skills. The questions are presented in a structured way to help students develop crystal clear concepts. Is It Necessary to Use Math Worksheets? Math worksheets are an amazing way to find a host of practice sums. As kids are exposed to several different types of problems they get an idea of what kind of questions will be framed in an examination. Thus, it is advisable to incorporate math worksheets as part of your regular curriculum. Can Math Worksheets Help in Understanding Concepts? Once a child is introduced to a topic, the only way to gauge his understanding of it is by solving practice questions. Math worksheets help kids to instill crystal clear concepts as they test a child's knowledge and help them to improve in areas that might be problematic. Hence, they prove to be a good resource that children can use for instilling a robust mathematical foundation. How Can Math Worksheets Help to Boost Problem-solving Skills? Math worksheets help kids analyze problems, break them down into chunks, and then solve them. As children get conditioned to interpreting the why and how behind a question they can improve their problem-solving abilities. In addition to this, they also learn many transferable skills such as critical thinking, logic, reasoning, and analytical abilities. What is the Best Way to Attempt Math Worksheet Questions? A well-structured math worksheet has sections with a gradual increase in the level of difficulty. 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