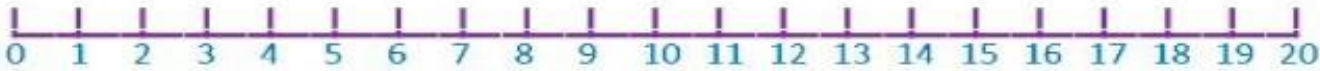
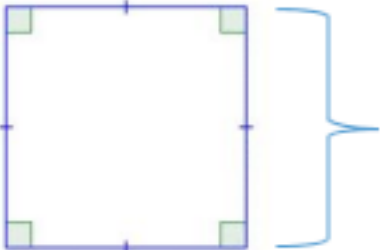
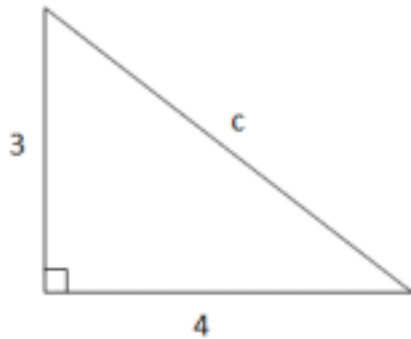


Entry Screener 'A'

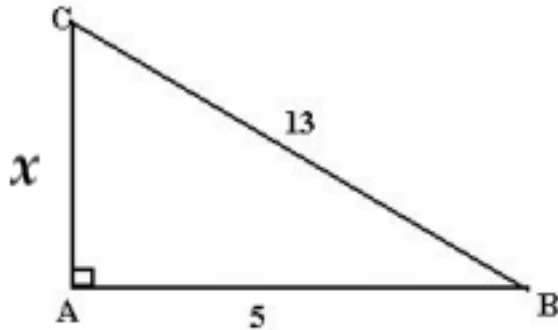
<p>1. Write the value of the underlined digit in words or fraction form.</p> <p style="text-align: center;">322.<u>1</u>48</p>	<p>2. Solve</p> <p style="text-align: center;">$\sqrt{36} =$</p>
<p>3. Without calculating an answer, place the decimal point in the correct position.</p> <p style="text-align: center;">653.73 – 104.54 = 54919</p>	<p>4. Without calculating an answer, place the decimal point in the correct position.</p> <p style="text-align: center;">471.35 ÷ 98.2 = 425</p>
<p>5. Show where $\sqrt{55}$ would approximately lie on the number line.</p> 	
<p>6. A square has an area of 81 cm^2. What is the length of one side of this square?</p>  <p style="margin-left: 200px;">A = of 81 cm^2 Side Length = _____</p>	

7. Find the length of side 'C'.



Side C = _____

8. Find the length of the missing side labeled 'x'.



$x =$ _____

9. Write 0.06 as a fraction.

10. Write $\frac{3}{100}$ as a percent.


11. Write 45% as a decimal.

12. Write 28% as a fraction.

13. Convert $\frac{18}{5}$ to a mixed number.

14. Write $2\frac{3}{5}$ as an improper fraction (common fraction).

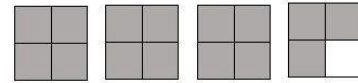
15. Add:
 $\frac{2}{9} + \frac{5}{9}$

<p>16. Write $\frac{8}{12}$ in lowest terms.</p>	<p>17. Subtract</p> $\frac{3}{4} - \frac{1}{8} =$	<p>18. Order least to greatest:</p> <p>0.64 0.8 0.259</p> <p>_____</p>
<p>19. Express $\frac{3}{4}$ as a percent.</p>	<p>20. Express $\frac{1}{5}$ as a decimal.</p>	<p>21. Express 12% as a fraction in simplest terms.</p>
<p>22. Write the following fractions on the number line below:</p> $\frac{14}{20}, \frac{13}{10}, \frac{9}{5}, 1\frac{3}{5}, 1$ 		

23. Express as a mixed number.



24. Express as an improper fraction:



25. Subtract:

$$6\frac{5}{8} - 2\frac{1}{4} =$$

26. Add:

$$5\frac{1}{4} + 3\frac{1}{2} =$$

27. Divide:

$$\frac{1}{2} \div 3 =$$

28. Multiply:

$$\frac{2}{7} \times 5 =$$

29. Multiply:


$$\frac{4}{7} \times \frac{2}{3} =$$

30. Divide:

$$\frac{3}{4} \div \frac{2}{5} =$$

31. Solve:

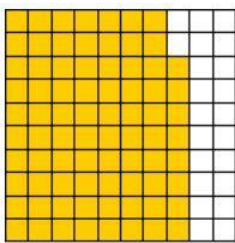
$$1\frac{1}{3} \times \left(\frac{5}{8} + \frac{3}{4} - \frac{5}{6} \right) =$$

<p>32. A vehicle travels 256 km in 4 hours. What is its rate of speed?</p>	<p>33. The ratio of vitamin powder to orange juice is 2 scoops to 3 cups of juice. How many scoops of powder are required for a 12 cup pitcher of juice?</p>	
<p>34. Solve: $(+8) + (-6) =$</p>	<p>35. Solve: $(-5) - (-4) =$</p>	<p>36. Solve: $(-3)(-8) + (24) \div (-2) =$</p>
<p>37. Solve: $5 \times 3 + 12 \div 2 =$</p>	<p>38. Solve: $20 - 6(2) \div 4 + 7 =$</p>	<p>39. Solve: $\frac{6(-8)}{-12} - 1 =$</p>
<p>40. Place these integers on the number line: +4, 0, -3, +7, -5, -1, +1</p> 		

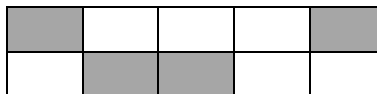
41. Order the following from greatest to least:

$$\frac{5}{2}, 1.4, 1\frac{1}{4}, 0.9, 0, 1$$

42. What percent of the diagram is shaded?



43. What percent of the diagram is shaded?



44. Rewrite as a percentage:

$$0.03 = \underline{\quad}\%$$

45. Write 0.045 as a percent.

$$0.045 = \underline{\quad}\%$$

46. Write 156% as a decimal.

$$156\% = \underline{\quad}$$

47. Find 35% of 260.

48. What is 10% of 438?

49. Last year 340 people came to the grade 9 track meet. This year the audience was 120% of what it was last year. How many people came this year?

50. Solve:

$$0.458 \times 6 =$$

51. Divide:
 $6.52 \div 2 =$

52. Divide:
 $3.22 \div 0.5 =$

53. What integer is 3 more than -5?

54. What is the greatest common factor (GCF) of 16 and 48?

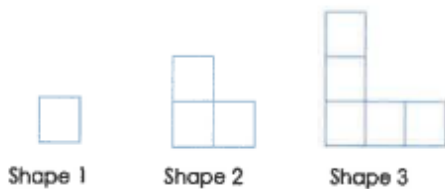
55. What is the least common multiple (LCM) of 18 and 45?

56. What is the pattern rule?

Write an expression to represent the pattern.

Input	Output
1	2
2	5
3	8
4	11

57. Write a rule for this pattern and use it to find the number of blocks in Shape 20.



Rule:

Shape number n	Number of Blocks
1	
2	
3	
4	
5	
20	

58. Write an expression for “three times a number minus four.”

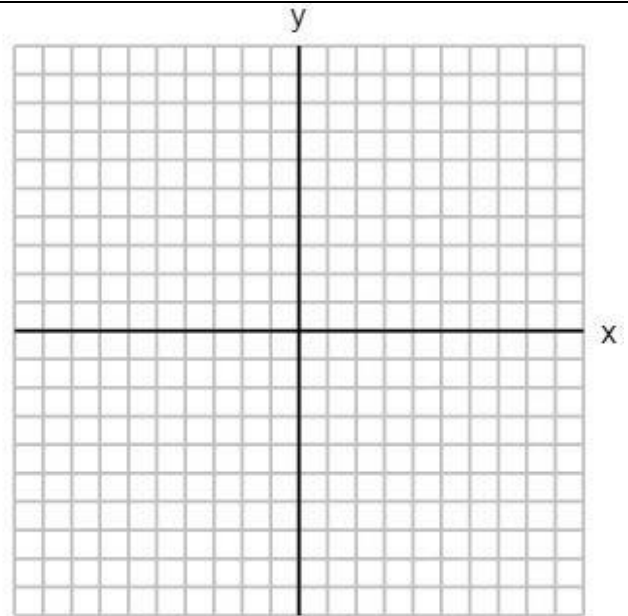
59. Write an equation for the statement “four times a number equals 20.”

60. The ski club is planning a trip, and the bus company will charge them using the formula $C = 30 + 50n$, where C is the cost for n people. Find the cost if 12 people are going.

61. Complete the table of values for the equation:

$$y = -3x + 2$$

x	y
-1	5
0	2
1	
2	-4
	-7
4	



62. Circle the ordered pair(s) that belong to the linear relation $y = 3x - 5$

(2,7) **(2,1)** **(3,2)**

63. Solve

64. Solve

$$w - 25 = 34$$

$$16 = 3x + 4$$

65. Solve

$$\frac{3x}{2} - 4 = 5$$

66. Solve

$$-3(m - 2) = 21$$