
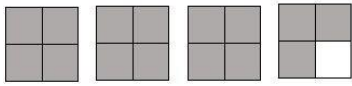
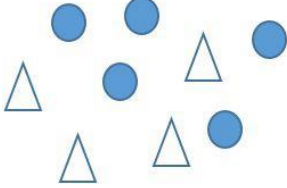



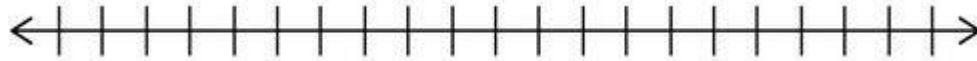
# Grade 8 Entry Screener 'A'

## Teacher

<p>1. Write the value of the underlined digit in words or fraction form.</p> <p style="text-align: center;"><b>56.<u>9</u>74</b></p>	<p>2. Circle <b>all</b> the numbers that 90 is divisible by:</p> <p style="text-align: center;">2    3    4    5    6    8    9    10</p>
DC PV N7.2 Decimals	<i>FM N6.2 Factors and Multiples</i>
<p>3. Without calculating an answer, place the decimal point in the correct position.</p> <p style="text-align: center;"><b>653.73 – 104.54 = 54919</b></p>	<p>4. Without calculating an answer, place the decimal point in the correct position.</p> <p style="text-align: center;"><b>417.35 ÷ 98.2 = 425</b></p>
DC PV N7.2 Decimals	DC PV N7.2 Decimals
<p>5. Write the number <b>52 401 056</b> in <b>expanded</b> form.</p>	
WN PV N6.1 Place Value (greater than one million and less than one one-thousandth)	
<p>6. This number is in “expanded” form:</p> <p style="text-align: center;"><b>30 000 000 + 8 000 000 + 90 000 + 5 000 + 40 + 7.</b></p> <p>Rewrite the number in <b>standard</b> form.</p>	
WN PV N6.1 Place Value (greater than one million and less than one one-thousandth)	
<p>7. Write the number 45 053 220 in <b>word</b> form.</p>	
WN PV N6.1 Place Value (greater than one million and less than one one-thousandth)	
<p>8. Write the number two hundred thousand six hundred thirty-four in <b>standard</b> form.</p>	
WN PV N6.1 Place Value (greater than one million and less than one one-thousandth)	

9. Write 0.06 as a fraction.	10. Write $\frac{3}{100}$ as a percent.	
F DC N7.4 Parts of a Whole	F DC N7.4 Parts of a Whole	
11. Write 45% as a decimal.	12. Write 28% as a fraction.	
N7.4 Parts of a Whole	N7.4 Parts of a Whole	
13. Change $\frac{18}{5}$ to a mixed number.	14. Write $2\frac{3}{5}$ as an improper fraction (common fraction).	15. Add: $\frac{2}{9} + \frac{5}{9}$
F N6.7 Fractions	F N6.7 Fractions	F N7.5 Fractions
16. Write $\frac{8}{12}$ in lowest terms.	17. Subtract $\frac{3}{4} - \frac{1}{8}$	18. Order least to greatest:  0.64 0.8 0.259
F N6.7 Fractions	F N6.7 Fractions	DC O N5.6 Decimals
19. Write $\frac{10}{3}$ as a mixed number.	20. Write $3\frac{2}{5}$ as an improper fraction.	21. Add: $5\frac{1}{4} + 3\frac{1}{2}$
F N6.7 Fractions	F N6.7 Fractions	F N6.7 Fractions
22. Express as a mixed Number. 	23. Express as an improper fraction. 	24. What is the ratio of triangles to circles? 
F N6.7 Fractions	F N6.7 Fractions	RR N6.8 Ratio
25. What is being compared by the ratio 3:8? 	26. Add: $(+8) + (-6) =$	27. Subtract: $(-5) - (-4) =$
RR N6.8 Ratio	I N7.6 Integers	I N7.6 Integers

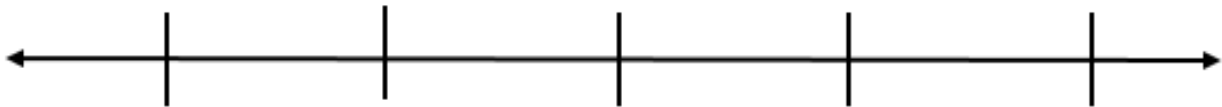
28. Place these integers on the number line: **+4, 0, -3, +7, -5, -1, +1**



*I O N6.6 Integers*

29. Write the following on the number line below:

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



*F DC I O N7.3 Finding values on a number line*

30. Solve:

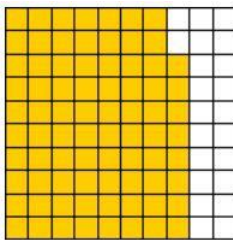
$$(+6) + (-8) + (-3) =$$

31. Solve:

$$(+5) - (-4) + (-2) =$$

*I N7.6 Integers*

32. What percent of the diagram is shaded?



*P N6.5 Percents*

35. Multiply:

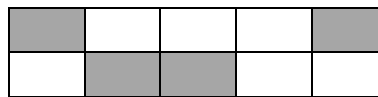
$$0.458 \times 36 =$$

*M D N6.4 Multiplying Decimals*

38. What is the greatest common factor (GCF) of 16 and 24?

*FM N6.2 Factors and Multiples*

33. What percent of the diagram is shaded?



*P N6.5 Percents*

36. Divide:

$$6.452 \div 4 =$$

*M D N6.4 Multiplying Decimals*

39. What is the least common multiple (LCM) of 9 and 12?

*FM N6.2 Factors and Multiples*

*I N7.6 Integers*

34. Express 0.06 as a percentage.

$$0.06 = \underline{\quad} \%$$

*P N6.5 Percents*

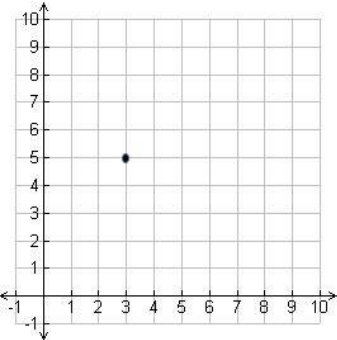
37. What integer is 3 more than -5?

*M D N6.6 Integers*

40. Circle the prime number.

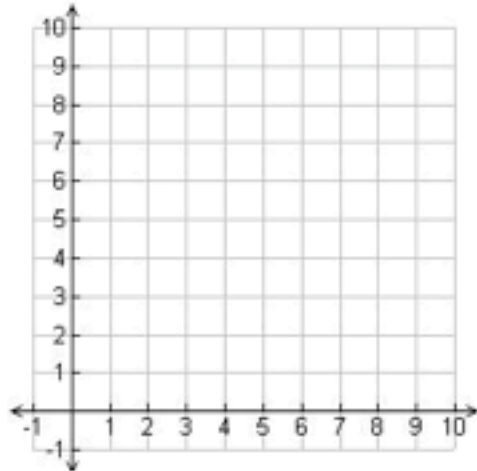
18, 15, 17

*FM N6.2 Factors and Multiples*

<p>41. Solve (Use order of operations.)</p> $5 \times 3 - 12 \div 2 =$	<p>42. Solve (Use order of operations.)</p> $20 - 6(2) \div 4 + 7 =$	<p>43. What are the coordinates of the point?</p> 																														
OO N6.3 Order of Operations	OO N6.3 Order of Operations	PR P6.1 Patterns and Relations																														
<p>44. What is the pattern rule?</p> <p>Write an expression to represent the pattern.</p> <table border="1" data-bbox="245 940 561 1167"> <thead> <tr> <th>Input</th> <th>Output</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> </tr> <tr> <td>2</td> <td>5</td> </tr> <tr> <td>3</td> <td>8</td> </tr> <tr> <td>4</td> <td>11</td> </tr> </tbody> </table>	Input	Output	1	2	2	5	3	8	4	11	<p>45. Fill in the table for <math>y = 2x + 3</math></p> <table border="1" data-bbox="695 921 979 1148"> <thead> <tr> <th><math>x</math></th> <th><math>y</math></th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>3</td> <td></td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>	$x$	$y$	1		2		3		4		<p>46. Fill in the table for <math>y = 2x - 1</math></p> <table border="1" data-bbox="1162 898 1482 1125"> <thead> <tr> <th><math>x</math></th> <th><math>y</math></th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> </tr> <tr> <td>3</td> <td></td> </tr> <tr> <td>5</td> <td></td> </tr> <tr> <td>10</td> <td></td> </tr> </tbody> </table>	$x$	$y$	1		3		5		10	
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<p>47. Write an expression for “three times a number minus four”</p>	<p>48. Write an equation for the statement “four times a number equals 20.”</p>																															
EQ P6.3 P7.2 Solving Equations	EQ P6.3 P7.2 Solving Equations																															

49. Draw the graph using the table of values:

$x$	$y$
1	6
2	7
3	8
4	9



PR P 7.1 Graphing

50. Solve

$$w - 25 = 34$$

EQ P7.3 Solving equations

52. Solve

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

EQ P7.3 Solving equations

51. Solve

$$16 = 3x + 4$$

EQ P7.3 Solving equations

53. Solve

$$a + 4 = -10$$

EQ P7.4 Solving equations