

# Number Agility Middle Years Assessment

Name: \_\_\_\_\_ Grade: \_\_\_\_\_ Date: \_\_\_\_\_

## *Representing Numbers*

Draw	Write a sentence to explain your drawing	
Create a word problem	Number:  <b>7 856 304</b>	Draw a number line
Place Value Chart	In words	
Real life example		

Draw	Write a sentence to explain your drawing	
Create a word problem	Number:  <b>5.6782</b>	Draw a number line
Place Value Chart	In words	
Real life example		

<b>Draw</b>	<b>Write a sentence to explain your drawing</b>		
<b>Create a word problem</b>	<b>Number:</b>  <b>-27</b>	<b>Draw a number line</b>	
<b>Solution to word problem</b>	<b>In words</b>		
<b>Real life example</b>			

<p>Draw</p>	<p>Write a sentence to explain your drawing</p>		
<p>Create a word problem</p>	<p>Number:</p> <p><b>5/7</b></p>	<p>Draw a number line</p>	
<p>Solution to the word problem</p>	<p>In words</p>		
<p>Real life example</p>			

<b>Draw</b>	<b>Write a sentence to explain your drawing</b>		
<b>Create a word problem</b>	<b>Number:</b>  <b><math>2\frac{1}{2}</math></b>	<b>Draw a number line</b>	
<b>Solution to the word problem</b>	<b>In words</b>		
<b>Real life example</b>			

Draw	Write a sentence to explain your drawing	
Create a word problem	Number:  <b><math>\sqrt{16}</math></b>	Draw a number line
Solution to the word problem	In words	
Real life example		

<p>Draw</p>	<p>Write a sentence to explain your drawing</p>		
<p>Create a word problem</p>	<p>Number:</p> <p><b><math>7^3</math></b></p>	<p>Draw a number line</p>	
<p>Solution to the word problem</p>	<p>In words</p>		
<p>Real life example</p>			

<p>Draw</p>	<p>Write a sentence to explain your drawing</p>		
<p>Create a word problem</p>	<p>Number:  <b>4:1</b></p>	<p>Draw a number line</p>	
<p>Solution to the word problem</p>	<p>In words</p>		
<p>Real life example</p>			



Draw	Write a sentence to explain your drawing	
Create a word problem	Number:  <b>24%</b>	Draw a number line
Solution to the word problem	In words	
Real life example		

*Composition and decomposition of numbers*

Make each number in as many ways as possible using equations

4 ¾	-16	-25
54 135	246 975	1 234 567
0.6	0.12	0.375

<b>0.2468</b>	<b><math>\frac{3}{4}</math></b>	<b><math>\frac{1}{2}</math></b>
<b>75%</b>	<b><math>\frac{7}{10}</math></b>	<b>10:1</b>
<b><math>6^2</math></b>	<b><math>4^3</math></b>	<b><math>\sqrt{49}</math></b>

*Comparing Numbers*

Use the  $<$   $=$   $>$  signs to compare the numbers below

$5 \underline{\hspace{1cm}} -7$

$-9 \underline{\hspace{1cm}} -6$

$3157 \underline{\hspace{1cm}} 8634$

$3:2 \underline{\hspace{1cm}} 6:5$

$\frac{4}{3} \underline{\hspace{1cm}} \frac{7}{6}$

$56\% \underline{\hspace{1cm}} 65\%$

$\sqrt{47} \underline{\hspace{1cm}} \sqrt{25}$

$10:2 \underline{\hspace{1cm}} 5:1$

$1.7756 \underline{\hspace{1cm}} 1.7765$

## Order Numbers

Put the numbers in order from smallest to largest

56 751, 89 168, 67 799, 45 879 , 70 561

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$\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{5}{6}$ ,  $\frac{7}{8}$ ,  $\frac{9}{10}$

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0.2, 0.05, 0.3, 0.25

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-5, 0, -20, 3, -15, 10

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$\sqrt{4}$ ,  $\sqrt{16}$ ,  $\sqrt{9}$ ,  $\sqrt{100}$ ,  $\sqrt{36}$ ,  $\sqrt{64}$

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$5^3$ ,  $7^2$ ,  $2^3$ ,  $8^2$ , 100, 0

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$\frac{7}{3}$ ,  $\frac{10}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{3}$ ,  $\frac{1}{4}$ , 0,  $\frac{11}{5}$

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0, 1, -5, 10, -8, -3, 6

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-0.76, 0, -1, 1, 0.65

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## Number Line

Place the numbers where they belong on the number line

0.129, 1, 0.005, 0.5, 0.297, 0.765, 0.817

< ----->

0,1, 0.0002, 0.49, 0.005, 0.6782, 0.8740, 0.3215

< ----->

0,  $\frac{7}{6}$ ,  $\frac{5}{3}$ ,  $\frac{1}{2}$ ,  $\frac{4}{4}$ ,  $\frac{4}{2}$ ,

< ----->

0,  $1\frac{1}{2}$ , 2, 1,  $\frac{3}{4}$ ,  $\frac{6}{5}$ ,

< ----->

$\frac{7}{4}$ , 0,  $\frac{5}{6}$ ,  $\frac{4}{8}$ , 1,2,  $\frac{9}{10}$ ,  $\frac{8}{6}$

< ----->

$\frac{5}{6}$ ,  $1\frac{2}{3}$ ,  $3\frac{1}{2}$ ,  $5\frac{1}{4}$ , 1

< ----->

-15, 15,1, 0, 7, -8, -3

< ----->

## *Equivalency*

Write three numbers that have the same value as the number

$$0.5 = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$1.25 = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$.425 = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$\frac{3}{4} = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$\frac{6}{10} = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$60\% = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$3:2 = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$125\% = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$5^2 = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$75:100 = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$