



Maryland Comprehensive
Assessment Program

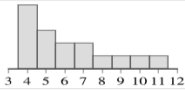
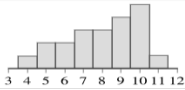
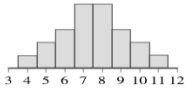
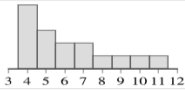
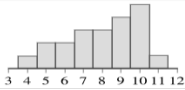
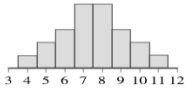
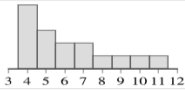
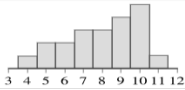
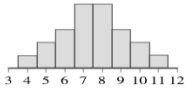
Draft MCAP Practice Test Answer and Alignment Document Mathematics – Grade 6 Online Practice Test

The following pages include the answer keys for all machine-scored items, as well as a sample top score response for hand-scored items. Please note that this document is still in draft form and will be posted to the MCAP mathematics practice test page (support.mdassessments.com/practice-tests/math/) when it is fully completed. The finalized document may have slight differences from what is shown below. Until the finalized form of this document is posted, please use the contents of this document to help prepare for the MCAP mathematics assessment.

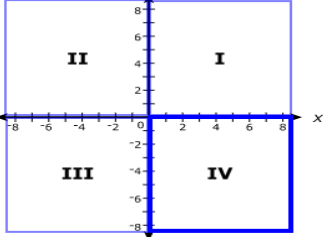
As a note:

- Constructed Response Items will show an answer key with sample student responses. Other valid methods for solving the problem can earn full credit unless a specific method is required by the item.
- In Constructed Response items where scores are awarded for full and partial credit, the definition of partial credit will be confirmed during range-finding (reviewing sets of real student work).
- If students make a computation error, they can still earn points for reasoning or modeling.

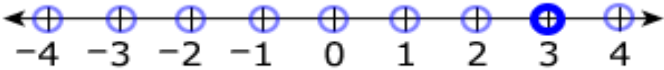
Section 1

Item Number	Answer Key	Evidence Statement/ Content Scope																
1	A	6.EE.B.5-2																
2	<p>The number $-7\frac{1}{2}$ would be positioned to the <input type="text" value="left"/> of -7 on a horizontal number line because <input type="text" value="-7\frac{1}{2} < -7"/>.</p>	6.NS.C.6c-1																
3	B, C, E	6.M.1 6.M.1a 6.RP.A.3b																
4	$w - 3$	6.EE.B.6																
5	<p>Sample Top Score Response</p> <p>The mistake was using the reciprocal of both fractions and not only the divisor.</p> <p>To find x, the number of portions in the jar, divide $\frac{3}{4}$ by $\frac{1}{10}$.</p> $x = \frac{3}{4} \div \frac{1}{10} = \frac{3}{4} \cdot \frac{10}{1} = \frac{30}{4} = 7\frac{1}{2}.$ <p>There will be 7 whole portions of glitter.</p>	6.R.2b 6.NS.A.1																
6	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 20%;">Symmetric</th> <th style="width: 20%;">Skewed to the Left</th> <th style="width: 20%;">Skewed to the Right</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </tbody> </table>		Symmetric	Skewed to the Left	Skewed to the Right		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	6.SP.A.2
	Symmetric	Skewed to the Left	Skewed to the Right															
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7	<p>The number of batches of cookies the baker can make from each pound of cookie dough is <input type="text" value="2"/>. The total number of batches of cookies the baker can make from the 8 pounds of cookie dough made is <input type="text" value="16"/>.</p>	6.M.1 6.M.1c 6.EE.C.9																
8	A	6.NS.B.3-2																
9	60	6.G.A.2-1																

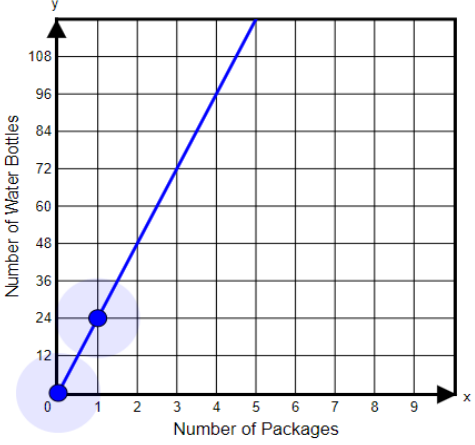
Section 2

Item Number	Answer Key	Evidence Statement/ Content Scope
1	C	6.NS.B.3-3
2	$\frac{3}{8}$ (or equivalent)	6.EE.B.7
3	B	6.R.1a 6.RP.A.3a
4		6.NS.C.8
5	<p>Sample Top Score Response</p> <p>The length of 2 -inch wood needed is $2(18 + 2 + 2) + 2(24 - 2 - 2) = 84$.</p> <p>The areas of the top and bottom pieces are each $2 \times 22 = 44$ square inches.</p> <p>The areas of the side pieces are each $2 \times 32 = 64$ square inches.</p> <p>The total area is $44 + 44 + 64 + 64 = 216$ square inches.</p>	6.M.1 6.M.1b 6.M.1c 6.EE.B.6
6	A, B, E	6.G.A.3
7	C	6.R.3a 6.EE.A.3
8	B	6.NS.B.2
9	125	6.RP.A.3c-2

Section 3

Item Number	Answer Key	Evidence Statement/ Content Scope
1	A	6.EE.A.2a
2		6.NS.C.7c-1
3	6	6.M.1 6.M.1c 6.RP.A.3b
4	A, D	6.EE.A.4
5	<p>Sample Top Score Response</p> <p>A rate of 2 chairs every 10 minutes is equivalent to 1 chair every 5 minutes. To make 5 chairs, a time of $5 \times 5 = 25$ minutes is required.</p> <p>Since 2 chairs are made every 10 minutes, the value $32 \div 2 = 16$ should be multiplied by 10. $16 \times 10 = 160$, so 160 minutes are required to make 32 chairs.</p>	6.R.1a 6.RP.A.3b
6	6	6.SP.B.5
7	A	6.M.1 6.M.1d 6.EE.C.9
8	D	6.NS.A.1

Section 4

Item Number	Answer Key	Evidence Statement/ Content Scope
1	D	6.RP.A.3b
2	9	6.EE.A.1-2
3	D	6.R.2c 6.NS.C.7d
4	<p>The graph will be a ray that starts at <input type="text" value="15"/> and points to the <input type="text" value="left"/>. The graph <input type="text" value="will"/> include the endpoint of the ray.</p>	6.EE.B.8
5	<p>Sample Top Score Response</p> <p>The painter did not multiply the mixed numbers correctly. The painter incorrectly multiplied the whole numbers together and the fractions together, then added the sums.</p> $2\frac{1}{2} \times 3\frac{1}{2} = \frac{5}{2} \times \frac{7}{2} = \frac{35}{4}$ $2\frac{1}{2} \times 4\frac{1}{2} = \frac{5}{2} \times \frac{9}{2} = \frac{45}{4}$ $3\frac{1}{2} \times 4\frac{1}{2} = \frac{7}{2} \times \frac{9}{2} = \frac{63}{4}$ <p>The total surface area is $2\left(\frac{35}{4}\right) + 2\left(\frac{45}{4}\right) + 2\left(\frac{63}{4}\right) = \frac{286}{4} = 71\frac{1}{2}$ square units.</p>	6.M.1 6.M.1e 6.G.A.2-2 6.G.A.4
6	A, C, D	6.RP.A.1
7	B	6.R.3b 6.EE.B.5-1
8	$56 + 91 = 7(8 + 13)$ or $56 + 91 = 7(13 + 8)$	6.NS.B.4-2
9	<p style="text-align: center;">Bottled Water</p> 	6.EE.C.9