MCAP Maryland Comprehensive Assessment Program

Practice Test Answer and Alignment Document
Mathematics: Grade 4

The following pages include the answer keys for all machine-scored items. A sample student response for the top score is included for all hand-scored constructed response items.

- Some answer keys include one possible sample student response. Other valid methods for solving the problem can earn full credit unless a specific method is required by the item.
- In items where the 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 Key/ Content Scope
1.	C	4.NBT.B.6
2.	D, F	4.NF.B.3b
3.	10	4.OA.A.3-1
4.	A	4.MD.A.3
5.	800000	4.NBT.A.3
6.	D	4.NF.C.7
7.	A	4.OA.A.1-2
8.	D	4.NF.B.4c
9.	B, D	4.G.A.3
10.	A	4.NF.B.3d
11.	200	4.NBT.B.5-2
12.	2.05	4.NF.C.6

Section 2

Item Number	Answer Key	Evidence Statement Key/ Content Scope
1.	D	4.M.1 4.MD.C.7 4.M.1-3
2.	B, E	4.R.3 4.NBT.A.3
3.	**Sample Top Score Response** The student divided correctly, but 0.20 hour is not the same as 20 minutes. 0.20 hour is $\frac{2}{10}$ of an hour and 20 minutes is $\frac{1}{3}$ of an hour. Before dividing by 10, the student could have changed 2 hours to 120 minutes. 120 minutes $\div 10 = 12$ minutes. So it takes 12 minutes for the train to go around the museum 1 time. **Refer to the Holistic Rubric for 3-Point Reasoning Constructed Response Items for score point information.**	4.R.2 4.NF.C.6 4.MD.A.2
4.	A, B, E	4.M.1 4.MD.B.4 4.M.1-1

Item Number	Answer Key	Evidence Statement Key/ Content Scope
5.	**Sample Top Score Response** The perimeter of the floor is $18 + 14 + 18 + 14 = 64$ feet. The width of the two doors needs to be subtracted. There are 2 doors with a width of 3 feet. The total width is $2 \times 3 = 6$ feet. So the length of baseboards, in feet, that are needed is $64 - 6 = 58$. The length of each baseboard is 8 feet. $58 \div 8 = 7\frac{1}{4}$ feet, so the contractor needs to buy 8 baseboards. The total cost, in dollars, is $8 \times 11 = 88$. **Refer to the Holistic Rubric for 3-Point Modeling Constructed Response Items for score point information.**	4.M.1 4.OA.A.3-2 4.MD.A.3 4.M.1-4
6.	C	4.R.1 4.NF.A.2

Section 3

Item Number	Answer Key	Evidence Statement Key/ Content Scope
1.	A	4.MD.C.5b
2.	D	4.NF.C.5
3.	A, E	4.NBT.A.2
4.	D	4.NF.B.3c
5.	C, E	4.OA.A.2
6.	B	4.NF.A.1
7.	B	4.MD.B.4
8.	A	4.NF.B.4a
9.	24	4.OA.C.5
10.	A	4.NF.A.2
11.	2071	4.NBT.B.4-2

Section 4

Item Number	Answer Key	Evidence Statement Key/ Content Scope
1.	D	4.M.1 4.MD.B.4 4.M.1-2
2.	C, E	4.R.4 4.OA.A.3-2
3.	**Sample Top Score Response** The total time exercised from Sunday to Thursday needs to be subtracted from $3\frac{5}{10}$. $3\frac{5}{10} - \frac{6}{10} = 2\frac{9}{10}$ $2\frac{9}{10} - \frac{3}{10} = 2\frac{6}{10}$ $2\frac{6}{10} - 3 \times \frac{4}{10} = \frac{26}{10} - \frac{12}{10} = \frac{14}{10}$ The athlete needs to exercise $1\frac{4}{10}$ more hours this week. **Refer to the Holistic Rubric for 3-Point Modeling Constructed Response Items for score point information.**	4.M.1 4.NF.B.3d 4.NF.B.4c 4.M.1-4
4.	C	4.M.1 4.MD.A.3 4.M.1-3

Item Number	Answer Key	Evidence Statement Key/ Content Scope
5.	**<u>Sample Top Score Response</u>** The model could be used to find the partial products. 70 and 8 are each multiplied by 50 and 4. 3500 is the product of 50 and 70. 400 is the product of 50 and 8. 280 is the product of 70 and 4. And 32 is the product of 8 and 4. Lastly, the partial products should be added together to get the product of 4212. **Refer to the Holistic Rubric for 3-Point Reasoning Constructed Response Items for score point information.**	4.R.1 4.NBT.B.5-1
6.	C	4.R.2 4.NF.C.5