A Written Response – Modules 1–3

QUESTION	SCORE	STANDARD	LEARNING TARGET
1		5.OA.A.1	Solve word problems involving order of operations with two types of operation
2		5.OA.A.1	Solve word problems involving order of operations with two types of operation
3		5.OA.A.2	Represent word problems with an equation
4		5.OA.A.2	Compare the size of two calculations
5		5.NBT.A.1	Describe the multiplicative relationship in the place-value system
6		5.NBT.A.1	Describe the multiplicative relationship in the place-value system
7		5.NBT.A.3 5.NBT.A.3a	Relate common fractions, mixed numbers, and decimal fractions
8		5.NBT.A.3 5.NBT.A.3a	Relate common fractions, mixed numbers, and decimal fractions
9		5.NBT.A.3 5.NBT.A.3a	Represent tenths, hundredths, and thousandths as decimal fractions
10		5.NBT.A.3 5.NBT.A.3a	Represent tenths, hundredths, and thousandths as decimal fractions
11		5.NBT.A.3 5.NBT.A.3a	Represent tenths, hundredths, and thousandths as decimal fractions
12		5.NBT.A.3 5.NBT.A.3b	Compare and order decimal fractions
13		5.NBT.A.3 5.NBT.A.3b	Compare and order decimal fractions
14		5.NBT.A.4	Round decimal fractions
15		5.NBT.A.4	Round decimal fractions
16		5.NBT.B.5	Use the standard algorithm to multiply up to four-digit numbers (with regrouping)
17		5.NBT.B.5	Use the standard algorithm to multiply up to four-digit numbers (with regrouping)
18		5.NBT.B.5	Use the standard algorithm to multiply up to four-digit numbers (with regrouping)
19		5.NBT.B.5	Solve multiplication word problems
20		5.NBT.B.5	Solve multiplication word problems
21		5.MD.B.2	Create, describe, and interpret line plots
22		5.MD.B.2	Create, describe, and interpret line plots
23		5.MD.C.3 5.MD.C.3a 5.MD.C.3b	Identify the total number of unit cubes as the volume of an object

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A Written Response – Modules 1–3

QUESTION	SCORE	STANDARD	LEARNING TARGET
24		5.MD.C.4	Use standard and non-standard units to measure volume
25		5.MD.C.4	Use standard and non-standard units to measure volume
		5.MD.C.5 5.MD.C.5a 5.MD.C.5b	Use multiplication to calculate volume of rectangular-based prisms
26		5.MD.C.5 5.MD.C.5a 5.MD.C.5b	Use multiplication to calculate volume of rectangular-based prisms
27		5.MD.C.5 5.MD.C.5a 5.MD.C.5b	Use multiplication to calculate volume of rectangular-based prisms
28		5.MD.C.5 5.MD.C.5b	Solve volume word problems
29		5.MD.C.5 5.MD.C.5b	Solve volume word problems
30		5.MD.C.5 5.MD.C.5c	Use multiplication and addition to calculate volume of rectilinear prisms

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A Written Response – Modules 1–3

1. My sister earns $5 allowance each week. She also earns $3 each week for delivering the local paper. Calculate how much she will earn after 12 weeks. Show your thinking.

$_____

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2. Eight friends buy movie tickets for $96 and food for $40. They share the cost equally. How much does each person pay? Show your thinking.

$_____

---

3. Write an equation to represent the problem. Use a letter for the unknown amount.

   A musician buys a new drum kit for $3,899 and 5 pairs of drumsticks for $11.80 each. The store gives them a discount of $150 off the total cost. How much does the musician pay in total?

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A Written Response – Modules 1–3

4. Read the statement. Write **true** or **false**.

1,630 × 21 is 2 times as much as 1,630 × 21 ÷ 2. _____

---

5. Read the number. Choose the statement that is true.

1,301,326

(A) The 3 in the hundred thousands place is 10 times as much as the 3 in the hundreds place.

(B) The 3 in the hundred thousands place is 100 times as much as the 3 in the hundreds place.

(C) The 3 in the hundred thousands place is 1,000 times as much as the 3 in the hundreds place.

(D) The 3 in the hundred thousands place is 10,000 times as much as the 3 in the hundreds place.

---

6. Write a seven-digit number to match the statement.

One digit is a 6 and its value is 1,000 times as much as another digit that is 6.

_____

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7. Choose the correct answer.

$$\frac{35}{100}$$

is equivalent to

(A) 3.50 (B) 3.5 (C) 0.35 (D) 0.035

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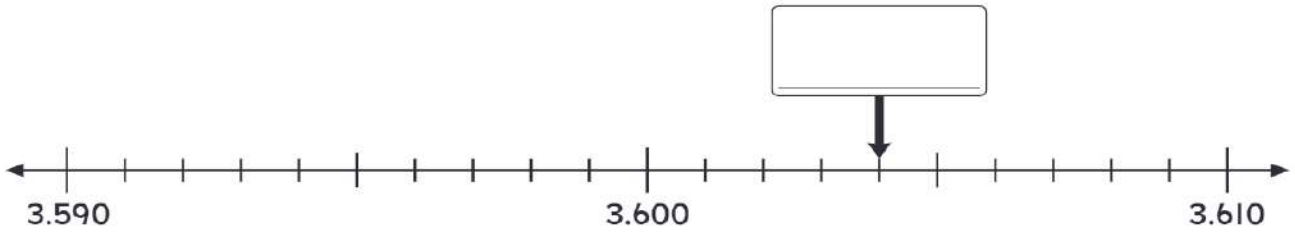
A Written Response – Modules 1–3

8. Write 2.83 as a mixed number.

9. Look at the number line. Write the number shown by the arrow.



10. Each large square is one whole. Choose the fraction that **does not** match the picture.

(A) 1.408

(B) $1\frac{48}{100}$

(C) $1\frac{408}{1000}$

(D) one and four hundred eight thousandths

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A Written Response – Modules 1–3

11. Read the number. Write the matching decimal fraction.

four and six hundred eight thousandths

_____

---

12. Choose the greatest number.

(A) 1.023 (B) 1.203 (C) 1.230 (D) 1.032

---

13. Write these numbers in order from least to greatest.

3.74 **3.4** **3.407**

_____ _____ _____

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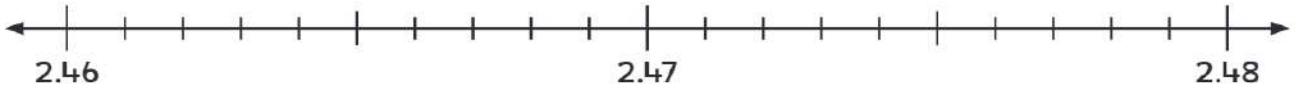
14. Round 2.466 to the nearest hundredth. You can use the number line below to help.

_____



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A Written Response – Modules 1–3

15. Choose the number that is closest to 2.

(A) 2.100 (B) 1.928 (C) 1.92 (D) 2.099

---

16. Look at this multiplication algorithm. What does the 2 represent? Choose the correct answer.

$$\begin{array}{r} {}^{1}\,{}^{2} \\ 936 \\ \times \quad 4 \\ \hline 3744 \end{array}$$

(A) 2 ones

(B) 2 tens

(C) 2 hundreds

(D) 2 thousands

---

17. Use the standard algorithm to multiply 5,826 and 6.

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A Written Response – Modules 1–3

18. Use the standard algorithm to multiply 23 and 471.

19. A book store buys 300 books for $14 each. Within one week it sells 137 books for $18 each. How much did the 137 books cost originally? Show your thinking.

$_____

20. A store is selling game consoles for $142 and games for $79. It has 13 game consoles on display and 16 games. What is the total value of the game consoles? Show your thinking.

$_____

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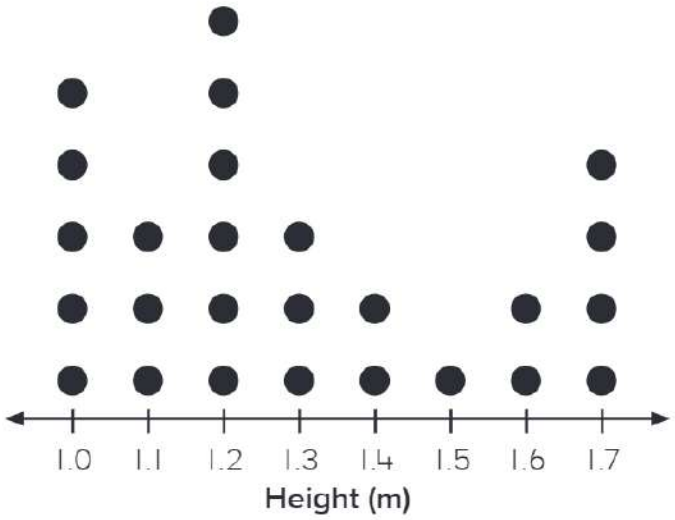
A Written Response – Modules 1–3

21. A ranger has measured the heights of tree saplings planted in the spring. The heights are recorded in this line plot.



Choose the correct sentence.

(A) Most saplings are taller than 2 meters.

(B) Most saplings are shorter than 1 meter.

(C) Most saplings are shorter than 1.3 meters.

(D) Most saplings are 1.7 meters tall.

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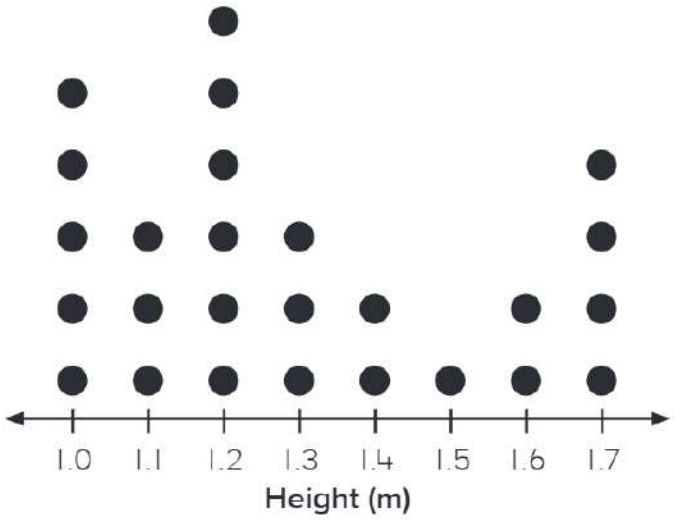
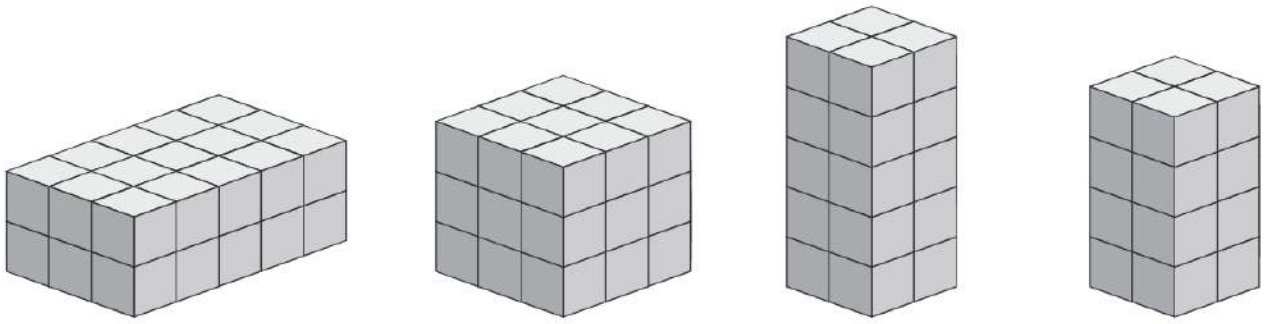
A Written Response – Modules 1–3

22. A ranger has measured the heights of tree saplings planted in the spring. The heights are recorded in this line plot.



How much taller is the tallest tree than the shortest tree? _____ m

23. Choose the prism with the greatest number of cubes.



(A) (B) (C) (D)

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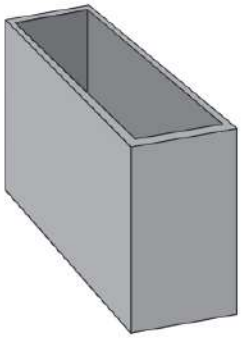
A Written Response – Modules 1–3

24. The volume of this box can be measured by filling it with centimeter cubes **or** inch cubes and counting the number of cubes. Choose the sentence that is true.



(A) There would be more inch cubes than centimeter cubes.

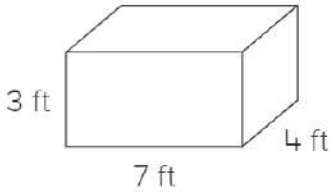
(B) There would be fewer inch cubes than centimeter cubes.

(C) There would be the same number of inch cubes as centimeter cubes.

(D) There would be fewer centimeter cubes than inch cubes.

---

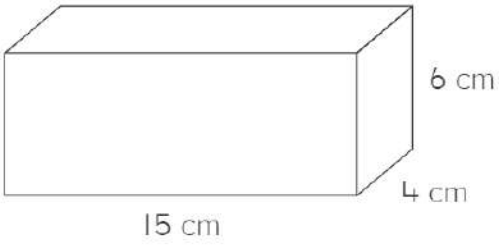
25. Calculate the volume of this prism. Show your thinking.



_____ ft^3

---

26. Calculate the volume of this prism.



_____ cm^3

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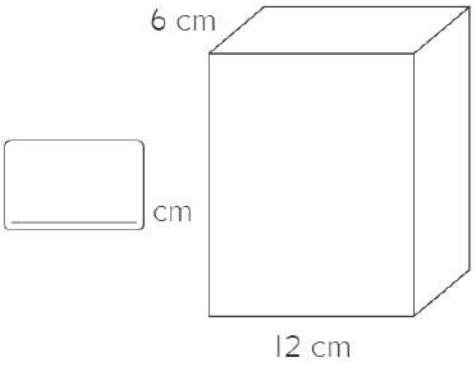
A Written Response – Modules 1–3

27. The volume of this prism is 1,296 cm^3. The length is 12 cm and the width is 6 cm. What is the height of the prism?



28. The students are packing inch cubes into a container. They place 14 on the bottom of the container, so that there are no gaps or overlaps. What is the volume of the container if they fill it with a total of 6 equal layers of cubes? Show your thinking.

_____ in^3

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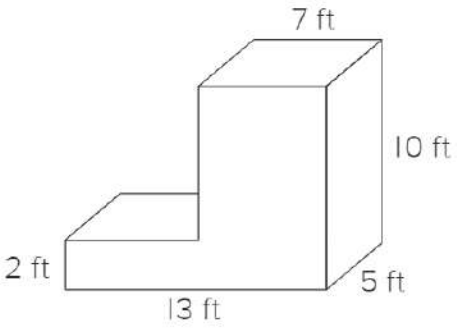
A Written Response – Modules 1–3

29. The dimensions of a storage unit are 8 ft × 9 ft × 5 ft. There are 15 large boxes and 7 medium boxes in the storage unit. What is the volume of the unit? Show your thinking.

_____ ft^3

30. Calculate the volume of this prism. Show your thinking.



_____ ft^3

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