THIRD SPACE LEARNING

5th Grade Tennessee State Practice Math Test

Tennessee Practice Test Grade 5

Grade 5

Questions

Name: ..... Class: .....

Date: ..... Score: .....

No Calculator For Questions 1 - 21

YOU MAY NOT USE A CALCULATOR IN SUBPART 1 OF THIS TEST.

---

1 Which expression shows “4 times as much as 56 + 12”?

A. $4 \times 56 + 12$
B. $56 + 12 \times 4$
C. $4 \times (56 + 12)$
D. $56 + (12 \times 4)$

---

2 Solve $13.3 \div 0.7 =$ ____

Write your answer in the box provided.

Answer

3 A certain fraction is greater than 1 and less than 2. When that fraction is multiplied by 2, which point(s) on the number line could be the answer? Select the **two** correct answers.

A. Point U
B. Point V
C. Point W
D. Point X
E. Point Y

---

4 Solve 516 × 27 = ____

Write your answer in the box provided.

Answer

5 Which expression shows '8 less than the quotient of 22 and 11'?

A. $8 - 22 \div 11$
B. $22 \times 11 - 8$
C. $8 - (22 + 11)$
D. $22 \div 11 - 8$

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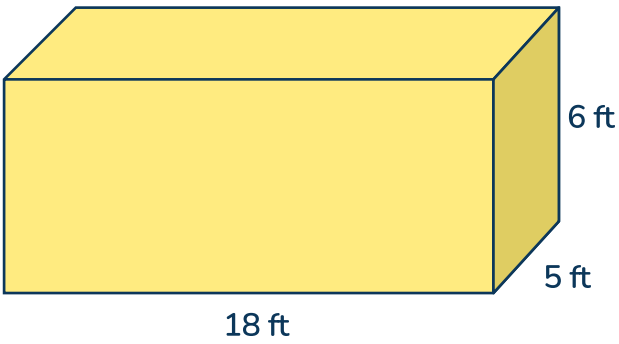
6 What is the volume of the rectangular prism in cubic feet?



Write your answer in the box provided.

Answer

7 How many millimeters are in 0.7 meters?

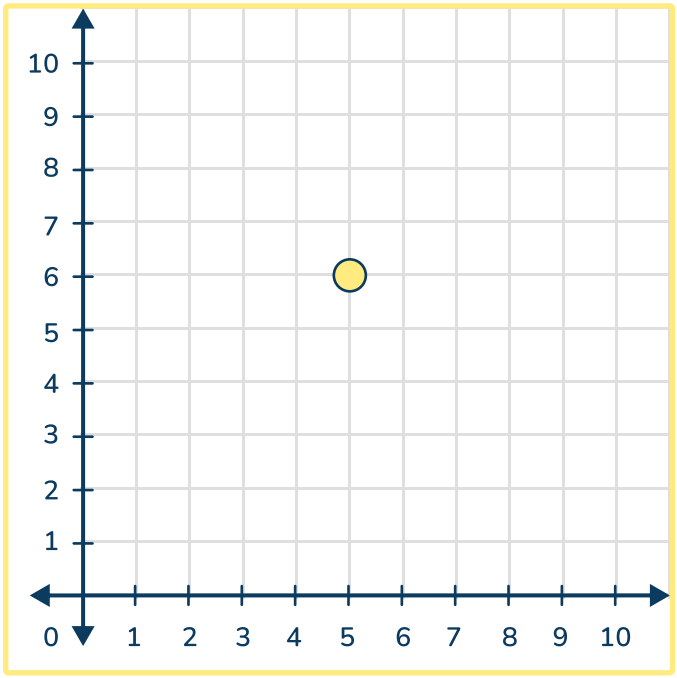
A. 70 mm

B. 700 mm

C. 7,000 mm

D. 70,000 mm

8



Which statement about the point is true?

A. The x coordinate is 6.

B. The point is 5 units from the x axis.

C. The point is right 6 and up 5.

D. The point is 5 units from the y axis.

9 Ben has a bird feeder in his backyard. He adds $\frac{1}{4}$ of a cup of birdseed each day. So far, he has added a total of 3 cups of birdseed. How many days has Ben been filling the bird feeder?

Write your answer in the box provided.

Answer

10 Solve $4\frac{1}{3} - 1\frac{7}{8}$.

Write your answer in the box provided.

Answer

11 Evaluate the expression below:

$(10 + 15 \times 4 - 50 + 8) \div 4$

Write your answer in the box provided.

Answer

---

12 The table below shows the time it took four runners to complete a mile.

Runner	Time (minutes)
1	9.79
2	8.337
3	8.97
4	9.7

Which comparison of these times is correct?

A. $8.97 > 9.79$
B. $8.337 < 8.97$
C. $9.7 > 9.79$
D. $9.7 < 8.337$

13 Rai wrote down two patterns.
Pattern A: 3, 6, 9, 12, 15...
Pattern B: 12, 24, 36, 48, 60...

Which statement correctly compares Rai's patterns?

A. The numbers in both patterns start odd, then become even.
B. The numbers in both patterns alternate between odd and even.
C. The numbers in Pattern B are 9 times bigger than the numbers in Pattern A.
D. The numbers in Pattern A are 4 times smaller than the numbers in Pattern B.

---

14 Ten chocolate bars are shared equally between 9 people. What fraction of chocolate bar will each person get?

A. $\frac{10}{9}$

B. $\frac{1}{10}$

C. $\frac{1}{9}$

D. $\frac{9}{10}$

15 Solve 289 ÷ 22 = ____

Write your answer in the box provided.

Answer

16

Which name(s) can this shape be classified with?
Select all the correct answers.

A. rhombus
B. rectangle
C. square
D. parallelogram
E. quadrilateral

17 Write the number equal to $9 \times 100 + 5 \times 1 + 5 \left(\frac{1}{10}\right) + 6 \times \left(\frac{1}{1{,}000}\right)$.

Write your answer in the box provided.

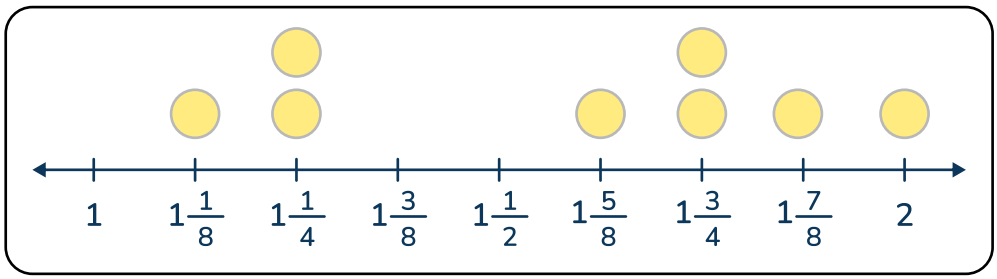
Answer

18 Solve 5.6 – 1.09 = ____

Write your answer in the box provided.

Answer

19 The line plot below shows the heights of Apollo's plants in feet. What is the total height, in inches, of the 3 shortest plants?



Write your answer in the box provided.

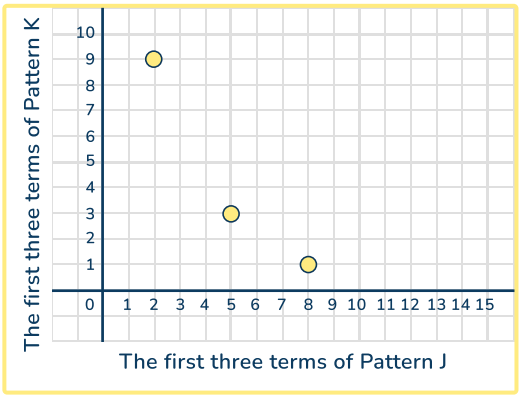
Answer

20 The rules for two patterns are below.

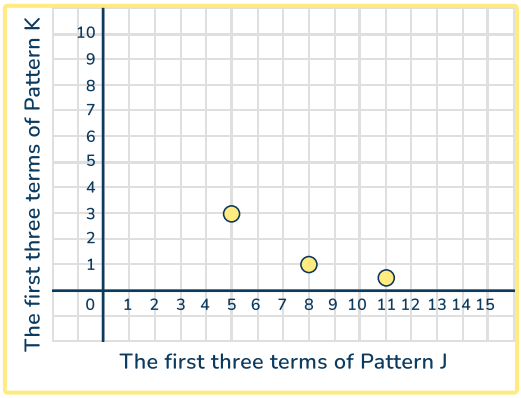
- Pattern J: Start at 2. Add 3.
- Pattern K: Start at 9. Multiply by $\frac{1}{3}$.

Which coordinate plane shows the first three terms of each pattern?

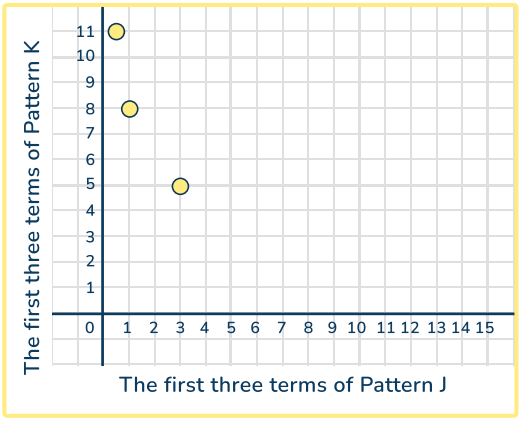
A.



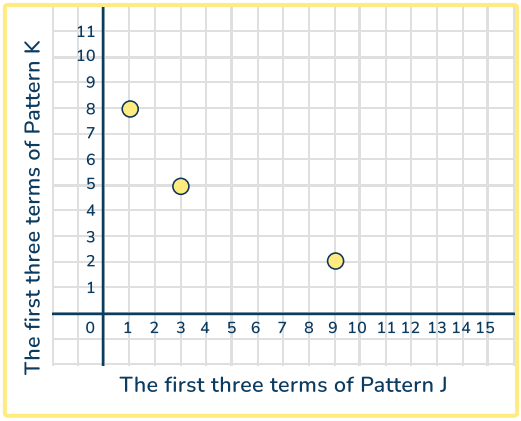
B.



C.



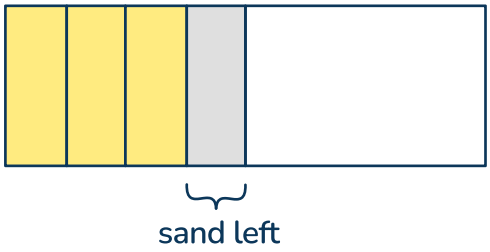
D.



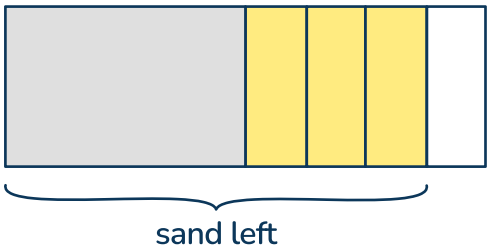
21 Viola has $\frac{1}{2}$ of a pound of sand. She uses $\frac{3}{4}$ of the sand.
Viola draws a large rectangle to represent 1 pound of sand.
Then she finishes the model to show how much sand she has left.

Which shows Viola's finished model?

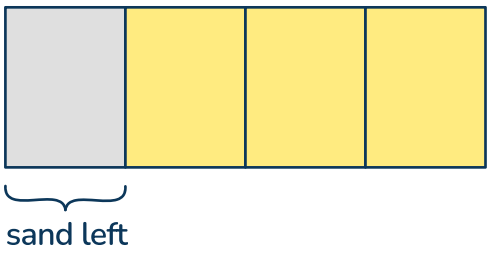
A.



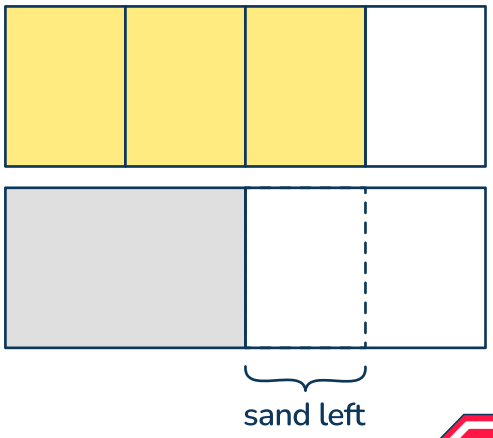
B



C.



D.



THIS IS THE END OF SUBPART 1 OF THE MATH PRACTICE TEST.

Calculator Can Be Used For Questions 22 - 45

YOU MAY USE A CALCULATOR IN SUBPART 2 OF THIS TEST.

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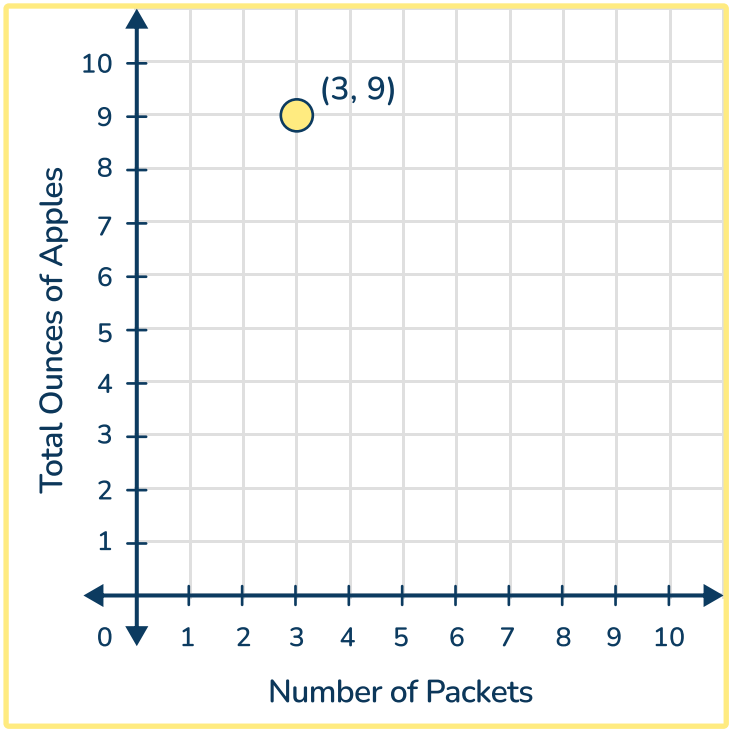
22 Round 17,680.907 to the nearest hundredth.

A. 17,700
B. 17,680.91
C. 17,680.900
D. 17,680.9

---

23 The graph shows the total number of ounces in a number of packets of apples.



Which statement correctly explains the meaning of (3, 9) on the graph?

A. Each packet of apples is 9 ounces.
B. 3 packets of apples weigh 9 ounces.
C. 9 packets of apples are 3 total ounces.
D. There are 3 ounces in 3 packets of apples.

24 What is the sum of $\frac{7}{9} + 3\frac{2}{3}$?

Write your answer in the box provided.

Answer

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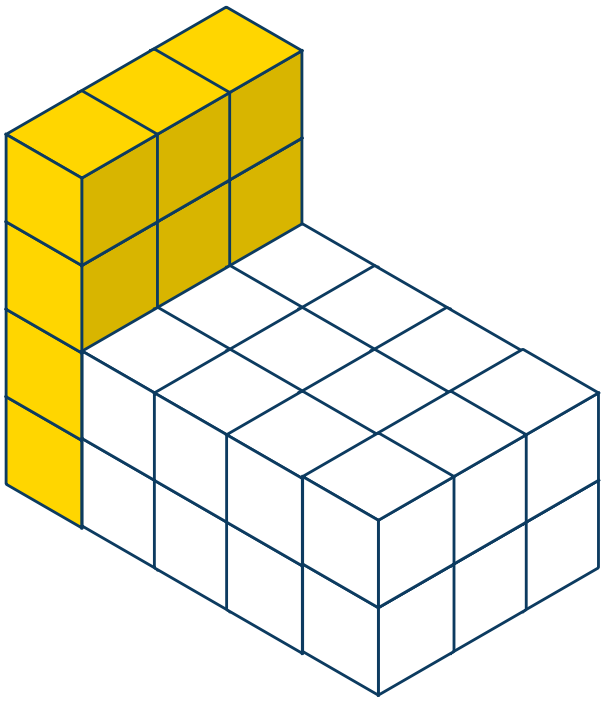
25 The shape below is made up of unit cubes. What is the volume of the shape, in cubic units?



A. 30 cubic units
B. 60 cubic units
C. 40 cubic units
D. 36 cubic units

26 Nell's bakery has 938 muffins ready to sell. The muffins will be packed in boxes of 26 and sold for $10 per box. How many full boxes of muffins can Nell pack?

Write your answer in the box provided.

Answer

27 Marco works at a pet store. He gives treats to the animals based on the following rules:

- A rabbit gets $\frac{3}{4}$ the amount of treats as a cat.
- A ferret gets $\frac{4}{3}$ the amount of treats as a cat.

Based on the information above, which statement is true?

A. A rabbit and a ferret get the same amount of treats.
B. A ferret gets fewer treats than a rabbit.
C. A ferret gets more treats than a rabbit.
D. A rabbit gets more treats than a ferret.

28 Which shapes always have perpendicular sides? Select all the correct answers.

A. square
B. parallelogram
C. rhombus
D. rectangle
E. quadrilateral

29 Sophie spent $3\frac{1}{4}$ hours baking cookies for the school fundraiser. How many minutes did Sophie spend baking?

A. 205 minutes
B. 184 minutes
C. 195 minutes
D. 180 minutes

30 Which equation equals 0.08?

A. $8 \times 10^2 = ?$
B. $800 \times 10^3 = ?$
C. $8 \div 10^2 = ?$
D. $800 \div 10^3 = ?$

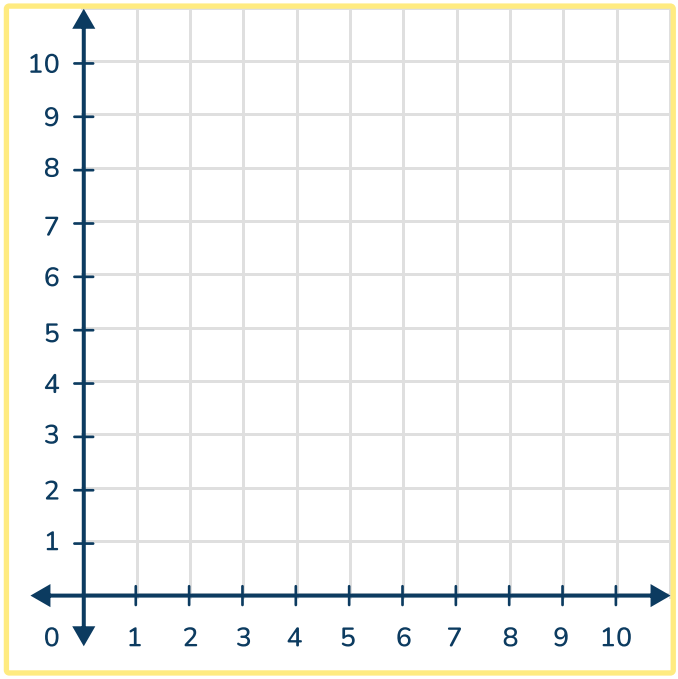
---

31 A fruit salad recipe requires $2\frac{3}{4}$ cups of blueberries. How many cups of blueberries would be needed to make $4\frac{1}{2}$ fruit salad recipes?

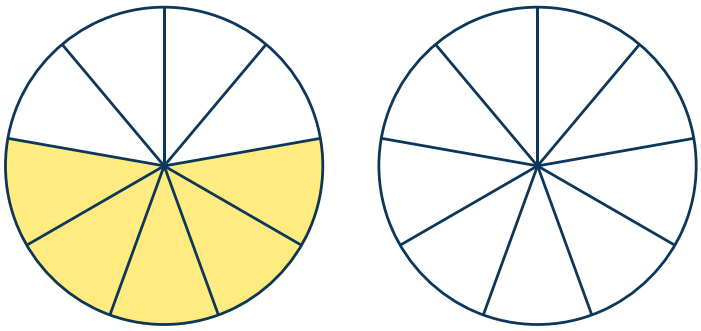
Write your answer in the box provided.

Answer

32 Graph the points B(3, 7) and Y(1,9).



33 Devon and Sahin ordered two pizzas for dinner. The shaded part of the circle represents the portion of the pizza Devon ate. Sahin ate $\frac{1}{3}$ more than Devon.



How much pizza was left over?

A. $1\frac{4}{9}$

B. $1\frac{1}{9}$

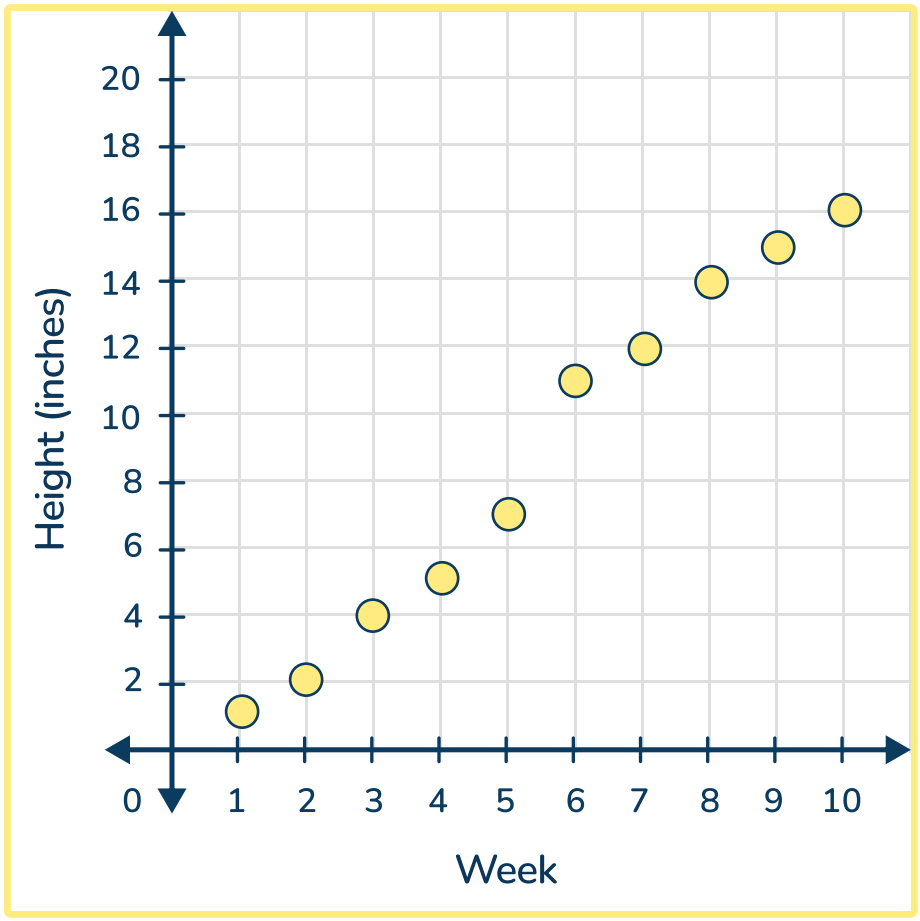
C. $\frac{7}{9}$

D. $\frac{5}{9}$

THIS IS THE END OF SUBPART 2 OF THE MATH PRACTICE TEST.

YOU MAY USE A CALCULATOR IN SUBPART 3 OF THIS TEST.

34 The graph shows the height of a plant after a number of weeks.



Between which two weeks did the plant grow the most?

A. weeks 9 and 10
B. weeks 5 and 6
C. weeks 4 and 5
D. weeks 7 and 8

35 Story: Saahir has $\frac{1}{6}$ of a pound of fish food. He uses it to feed 5 fish equally. How much food does each fish get?

Which expressions match the story context? Select the **two** correct answers.

A. $\frac{1}{6} \times 5$

B. $\frac{1}{6} \times \frac{1}{5}$

C. $\frac{1}{6} \div 5$

D. $5 \div \frac{1}{6}$

E. $\frac{1}{30} - \frac{1}{6}$

---

36 Complete the statement: 50 is ____ times the size of 500.

A. 100

B. 10

C. $\frac{1}{10}$

D. $\frac{1}{100}$

37 A teacher has 22 packs of markers. Each pack has 64 markers. The teacher wants to divide all the markers equally into 16 boxes. How many markers will be in each box?

A. 88 markers
B. 46 markers
C. 47 markers
D. 87 markers

---

38 Cyrus built a new garden bed. He needs to fill it with $11\frac{1}{4}$ cubic yards of soil. He has already filled it with $7\frac{5}{12}$ cubic yards of soil. How much more soil does he need to fill the garden bed?

A. $18\frac{2}{3}$ cubic yards

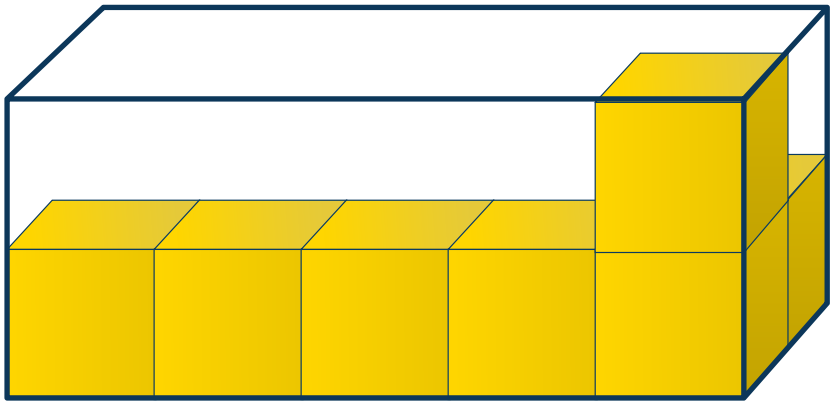
B. $3\frac{5}{6}$ cubic yards

C. $4\frac{10}{12}$ cubic yards

D. $5 \div \frac{1}{6}$

E. $4\frac{1}{6}$ cubic yards

39 Jia Xin is filling a box with cubes.



What is the maximum number of cubes that will fit inside the box?

A. 7
B. 12
C. 14
D. 20

---

40 There are 6 pitchers of lemonade. Each pitcher is $\frac{3}{4}$ full. Which expression represents the total amount of full pitchers of lemonade?

A. $(6 \times 4) \div 3$
B. $6 \div (3 \times 4)$
C. $(3 \times 6) \div 4$
D. $(6 \div 3) \times 4$

41 Iona and her 3 friends go out to eat at a restaurant. At the end of the meal, the total bill is $70.36. They decide to split the bill equally. How much will each person pay?

A. $211.08
B. $23.45
C. $17.59
D. $281.44

42 Karol is planting a flower garden in her backyard. The garden is $12\frac{1}{3}$ feet long and 8 feet wide. What is the area of Karol's garden in square feet?

A. $98\frac{2}{3}$ square feet
B. $20\frac{1}{3}$ square feet
C. 96 square feet
D. $96\frac{1}{3}$ square feet

43 A rectangular prism has 20 unit cubes on the bottom layer, with no spaces or gaps. The prism is 4 unit cubes tall.

Which **two** expressions determine the volume of the prism, in unit cubes?

A. $20 + 20 + 20 + 20$
B. $20 \times 4 \times 4$
C. $4 + 4 + 4 + 4$
D. $(20 + 4) \times 4$
E. 20×4

---

44 Round 2,309.68 to the nearest whole number.

Write your answer in the box provided.

Answer

45 Hala has a rectangular box. The area of the base is 22 square inches. The volume of the box is 330 square inches. What is the height of the box?

A. 105 inches
B. 308 inches
C. 7,260 inches
D. 15 inches

THIS IS THE END OF THE TEST.

Answer Key - Multiple Choice

Item number	Correct answer	Standard(s)	DOK
1	C	**5.OA.A.2**	DOK 1
2	19	**5.NBT.B.7**	DOK 1
3	C, D	**5.NF.B.5b**	DOK 3
4	13,932	**5.NBT.B.5**	DOK 2
5	D	**5.OA.A.2**	DOK 1
6	540	**5.MD.C.5b**	DOK 1
7	B	**5.MD.A.1**	DOK 1
8	D	**5.G.A.1**	DOK 1
9	12	**5.NF.B.7c**	DOK 2
10	$2\frac{11}{24}$ or equivalent	**5.NF.A.1**	DOK 1
11	7	**5.OA.A.1**	DOK 1
12	B	**5.NBT.A.3**	DOK 2
13	D	**5.OA.B.3**	DOK 2
14	A	**5.NF.B.3**	DOK 2
15	13 R3	**5.NBT.B.6**	DOK 1
16	B, D, E	**5.G.A.3**	DOK 2
17	905.506	**5.NBT.A.3**	DOK 1
18	4.51	**5.NBT.B.7**	DOK 2
19	$3\frac{5}{8}$	**5.MD.B.2**	DOK 2

Item number	Correct answer	Standard(s)	DOK
20	A	**5.OA.B.3**	DOK 2
21	A	**5.NF.B.6**	DOK 2
22	B	**5.NBT.A.4**	DOK 1
23	B	**5.G.A.2**	DOK 2
24	$4\frac{4}{9}$ or equivalent	**5.NF.A.1**	DOK 1
25	D	**5.MD.C.5c**	DOK 2
26	36	**5.NBT.B.6**	DOK 2
27	C	**5.NF.B.5a**	DOK 3
28	A, D	**5.G.A.3**	DOK 1
29	C	**5.MD.A.1**	DOK 2
30	C	**5.NBT.A.2**	DOK 1
31	$12\frac{3}{8}$ or equivalent	**5.NF.B.6**	DOK 2
32	Point plotted at (3, 7) and (1,9)	**5.G.A.1**	DOK 1
33	D	**5.NF.A.2**	DOK 2
34	B	**5.G.A.2**	DOK 2
35	B, C	**5.NF.B.7c**	DOK 2
36	C	**5.NBT.A.1**	DOK 1
37	A	**5.NBT.B.5, 5.NBT.B.6**	DOK 2
38	B	**5.NF.A.2**	DOK 2

Item number	Correct answer	Standard(s)	DOK
39	D	**5.MD.C.3b**	DOK 2
40	C	**5.NF.B.4a**	DOK 2
41	C	**5.NBT.B.7**	DOK 2
42	A	**5.NF.B.6**	DOK 2
43	A, E	**5.MD.C.5a**	DOK 2
44	2,310	**5.NBT.A.4**	DOK 1
45	D	**5.MD.C.5b**	DOK 2

ANSWERS SORTED BY REPORTING CATEGORY

Computation with whole numbers and decimals; Evaluating expression (5.OA.A, 5.NBT.B)			
1	C	**5.OA.A.2**	DOK 1
2	19	**5.NBT.B.7***	DOK 1
4	13,932	**5.NBT.B.5***	DOK 2
5	D	**5.OA.A.2**	DOK 1
11	7	**5.OA.A.1**	DOK 1
15	13 R3	**5.NBT.B.6***	DOK 1
18	4.51	**5.NBT.B.7***	DOK 1
26	36	**5.NBT.B.6***	DOK 2
37	A	**5.NBT.B.5, 5.NBT**	DOK 2
41	C	**5.NBT.B.7***	DOK 2

Fractions (5.NF.A, 5.NF.B)			
3	C, D	**5.NF.B.5b***	DOK 3
9	12	**5.NF.B.7c***	DOK 2
10	$2\frac{11}{24}$ or equivalent	**5.NF.A.1***	DOK 1
14	A	**5.NF.B.3***	DOK 2
21	A	**5.NF.B.6***	DOK 2
24	$4\frac{4}{9}$ or equivalent	**5.NF.A.1**	DOK 1
27	C	**5.NF.B.5a***	DOK 3
31	$12\frac{3}{8}$ or equivalent	**5.NF.B.6***	DOK 2
33	D	**5.NF.A.2***	DOK 2
35	B, C	**5.NF.B.7c***	DOK 2
38	B	**5.NF.A.2***	DOK 2
40	C	**5.NF.B.4a***	DOK 2
42	A	**5.NF.B.6***	DOK 2

Number Relationships and Patterns (5.OA.B, 5.NBT.A)			
12	B	**5.OA.B.3**	DOK 2
13	D	**5.NBT.A.3***	DOK 2
17	905.506	**5.NBT.A.3***	DOK 1
20	A	**5.OA.B.3**	DOK 2
22	B	**5.NBT.A.4***	DOK 1
30	C	**5.NBT.A.2***	DOK 1
36	C	**5.NBT.A.1***	DOK 1
44	2,310	**5.NBT.A.4***	DOK 1

Geometric and Measurement Concepts (5.MD.A, 5.MD.B, 5.MD.C, 5.G.A, 5.G.B)			
6	540	**5.MD.C.5b***	DOK 1
7	B	**5.MD.A.1**	DOK 1
8	D	**5.G.A.1**	DOK 1
16	B, D, E	**5.G.A.3**	DOK 2
19	$3\frac{5}{8}$	**5.MD.B.2**	DOK 2
23	B	**5.G.A.2**	DOK 2
25	D	**5.MD.C.5c***	DOK 2
28	A, D	**5.G.A.3**	DOK 1
29	C	**5.MD.A.1**	DOK 2
32	Point plotted at (3, 7) and (1,9)	**5.G.A.1**	DOK 1
34	B	**5.G.A.2**	DOK 2
39	D	**5.MD.C.3b***	DOK 2
43	A, E	**5.MD.C.5a***	DOK 2
45	D	**5.MD.C.5b**	DOK 2

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