THIRD SPACE LEARNING

5th Grade South Carolina State Practice Math Test

South Carolina Practice Test
Grade 5

Grade 5

Questions

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

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

1 Emma bought 3 packs of markers for $5 each and a notebook for $8. Which expression shows how much money Emma spent in total?

A. $3 \times 5 + 8$
B. $3 + 5 + 8$
C. $3 \times 5 - 8$
D. $3 + 5 \times 8$

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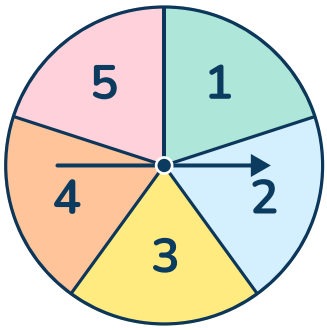
2 What is the probability that Rachel spins a 3?



What is the probability that Rachel spins a 3?

A. $\frac{3}{5}$

B. $\frac{2}{3}$

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

D. $\frac{3}{4}$

3

x	25	30	44	52
y	5	10	24	32

Which expression matches the rule for the function table?

A. $x - 20 = y$

B. $x + 20 = y$

C. $x \div 5 = y$

D. $5x = y$

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4 A smoothie store has 12 different fruit smoothies. The list below shows the ounces of fruit in each smoothie:
8, 8.5, 6, 7.5, 9, 7.5, 8, 10.5, 8, 9.5, 10, 8.5

What is the range of the ounces of fruit in the smoothies?

A. 12
B. 4.5
C. 8
D. 3

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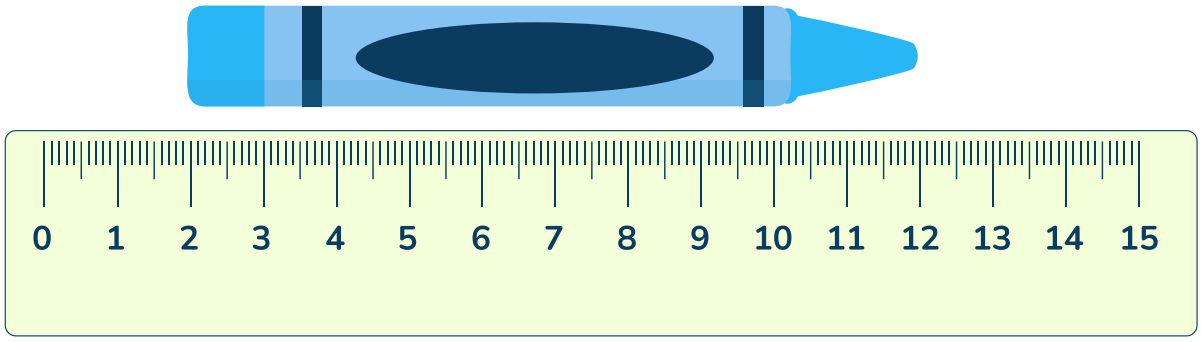
5 Jareth placed the crayon next to the ruler and said “This crayon is about 12 millimeters long.”



Is Jareth correct? Why or why not?

A. Yes, because the top of the crayon is closer to 12 mm.
B. No, because the top of the crayon is closer to 13 mm.
C. Yes, because the top of the crayon is between 11mm and 12mm.
D. No, because the bottom of the crayon is not lined up with 0 mm.

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6 Ishaan is filling a bucket with water. The bucket holds $9\frac{1}{4}$ gallons of water. So far, he has added $6\frac{7}{12}$ gallons of water. How much more water does Ishann need to fill the bucket?

A. $3\frac{1}{3}$ gallons

B. $15\frac{5}{6}$ gallons

C. $2\frac{2}{3}$ gallons

D. $15\frac{1}{3}$ gallons

---

7 Which equation uses the Least Common Multiple (LCM) to solve $\frac{3}{4}+\frac{5}{6}$?

A. $\frac{3}{4}+\frac{5}{6}=\frac{18}{24}+\frac{20}{24}$

B. $\frac{3}{4}+\frac{5}{6}=\frac{9}{12}+\frac{10}{12}$

C. $\frac{3}{4}+\frac{5}{6}=\frac{12}{24}+\frac{30}{24}$

D. $\frac{3}{4}+\frac{5}{6}=\frac{3}{12}+\frac{5}{12}$

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8 Complete the statement:
The 9 in 51.09 is ____ times the size of the 9 in 19.07.

A. 100

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

C. 10

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

---

9 Taylor is stacking boxes. Each box is $\frac{1}{5}$ of a foot tall. The stack of boxes is now 2 feet tall. How many boxes has Taylor stacked?

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

B. 5

C. 10

D. 2

---

10 Solve $4 \times 0.38 =$ ___

A. 1.52

B. 0.38

C. 15.2

D. 4.4

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11 A factory makes 827 cars every month. How many cars will the factory make in 12 months?

A. 8,272
B. 9,924
C. 8,910
D. 9,824

12 Kyrie has 4 ropes that are all the same length. Each rope is a little less than 1 foot long. Which of these could be the total length of all 4 ropes?

A. $3\frac{1}{2}$ ft

B. 4 ft

C. $4\frac{1}{2}$ ft

D. 2 ft

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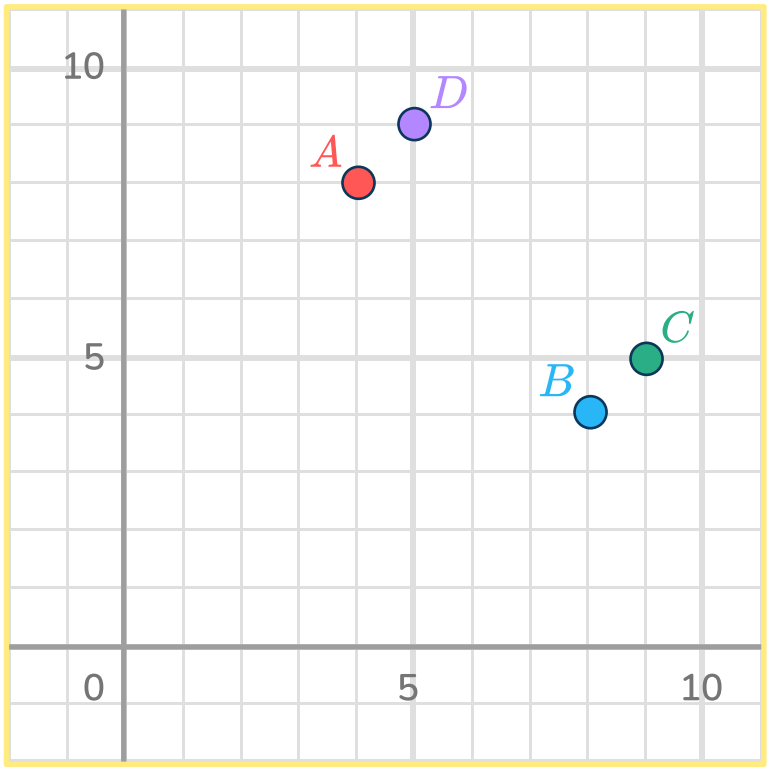
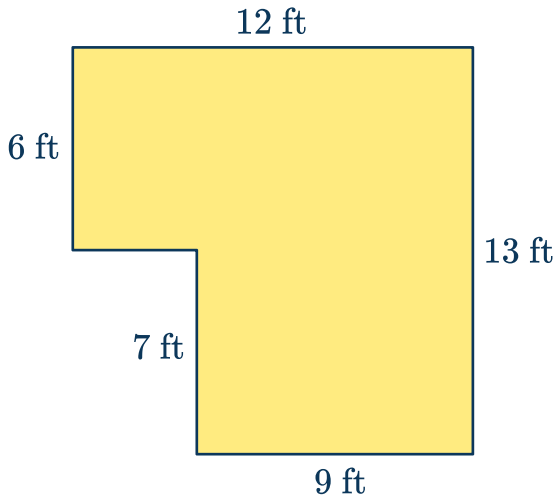
13 Which point is (4,8)?



14 What is the area of the figure?



A. 50 ft
B. 135 ft
C. 219 ft
D. 159 ft

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15 What number is five hundred nine and three hundred two thousandths?

A. 509,032
B. 509,302
C. 509.032
D. 509.302

---

16 Solve $7 \div \frac{1}{6} =$ ___

A. $\frac{1}{7}$

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

C. 42

D. $\frac{1}{42}$

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17 Nyla bought a water bottle for $18.95. After buying it, she had $5.62 left. How much money did Nyla have when she went to the store?

A. $24.57
B. $13.33
C. $23.57
D. $13.57

18 There are 452 kids going to a soccer summer camp. The kids will be put into teams of 17. How many complete groups of 17 kids will there be?

A. 27
B. 10
C. 17
D. 26

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19 Oaklyn and DeAndre rode their bikes for a week. Oaklyn wrote down how many miles she rode each day in the table.

Oaklyn's data

Week	1	2	3	4	5	6	7
Miles biked	5.5	6	4.25	5.5	5.35	3.5	7.4

DeAndre looked at Oaklyn's data and said, "My mode is greater than Oaklyn's but my range is less."

Which table shows how many miles DeAndre biked for a week?

A.

Week	1	2	3	4	5	6	7
Miles biked	6.5	7	6.8	5	7	8.5	4.5

B.

Week	1	2	3	4	5	6	7
Miles biked	8.1	7.7	6.4	8	7.8	6.4	7.5

C.

Week	1	2	3	4	5	6	7
Miles biked	5	5.6	4.2	6	4.2	8.1	2.4

D.

Week	1	2	3	4	5	6	7
Miles biked	4.1	5	3.5	4	5	3	4.2

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20 A company wants to buy 72 new computers. Each computer costs $595. How much money will the company pay for all the computers?

A. $4,284
B. $5,345
C. $42,840
D. $41,652

21 A gym teacher has some ropes. They measure between 8 and 11 meters. Which is the possible measurement of rope the gym teacher has?
(1 meter = 100 centimeters = 1,000 millimeters)

A. 9,300 millimeters
B. 8,200 centimeters
C. 870 millimeters
D. 930 centimeters

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22 Syncere has $\frac{1}{3}$ of a liter of juice. She pours it equally between 5 cups. How many liters of juice is in each cup?

A. $1\frac{2}{3}$

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

C. $\frac{1}{15}$

D. $\frac{3}{5}$

---

23 Calvin had $\frac{3}{5}$ of a liter of juice. Calvin used some to make a smoothie. Then Calvin had $\frac{1}{2}$ of a liter of juice left. How much juice did Calvin use in the smoothie?

A. $1\frac{1}{10}$ liters

B. $\frac{1}{10}$ of a liter

C. $\frac{1}{5}$ of a liter

D. $1\frac{1}{5}$ liters

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24 Round 56.089 to the nearest tenth.

A. 56.0
B. 56.09
C. 56.189
D. 56.1

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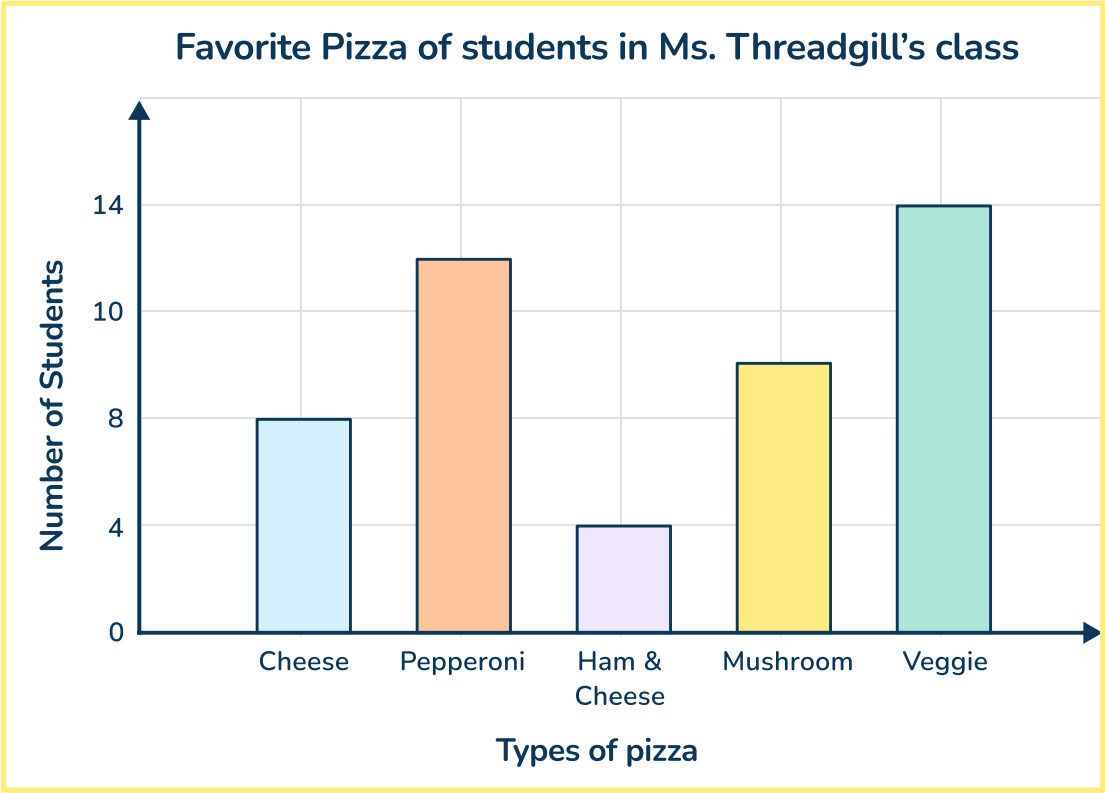
25 Ms. Threadgill needs to order 6 pizzas for a class party. She asked her students what kind of pizza they like best. The bar graph shows the results.



Which pizza order is the best choice based on what the students in Ms. Threadgill's class like?

A. 2 pepperoni pizzas, 2 veggie pizzas, 1 cheese pizza and 1 mushroom pizza
B. 3 veggie pizzas, 2 pepperoni pizzas, 2 ham and cheese pizzas
C. 1 cheese pizza, 1 pepperoni pizza, 1 ham and cheese pizza, 1 mushroom pizza, 2 veggie pizzas
D. 2 cheese pizzas, 2 pepperonis pizzas, 2 mushroom pizzas

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26 A library has 751 books to organize. The books will be placed on shelves. Each shelf holds 26 books. How many shelves will the library need to hold all the books?

A. 19,526
B. 28
C. 15,476
D. 29

27 Aditi volunteers at a zoo. She helps feed the animals based on the following rules.

- A rhino eats $\frac{5}{4}$ times the amount of food as a hippo.
- An buffalo eats $\frac{4}{5}$ the amount of food as a hippo.

Based on the information above, which statement is true?

A. A rhino and a buffalo eat the same amount of food.
B. A rhino eats more than a buffalo.
C. A hippo eats more than a rhino.
D. A buffalo eats more than a hippo.

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28 Sofia, Emberly and Jakai are putting plants into pots. Sofia used $2\frac{5}{8}$ pounds of soil, Emberly used $2\frac{3}{5}$ pounds of soil and Jakai used $3\frac{1}{12}$ pounds of soil. Which correctly compare the pounds of soil used by Sofia, Emberly and Jakai? Select all the correct answers.

A. $2\frac{3}{5} > 3\frac{1}{12}$
B. $2\frac{5}{8} < 3\frac{1}{12}$
C. $2\frac{3}{5} > 2\frac{5}{8}$
D. $2\frac{3}{5} < 2\frac{5}{8}$

29 Angelina spent $2\frac{1}{4}$ hours practicing the guitar. How many minutes did Angelina spend practicing the guitar?
(1 hour = 60 minutes)

A. 225 minutes
B. $120\frac{1}{4}$ minutes
C. 145 minutes
D. 135 minutes

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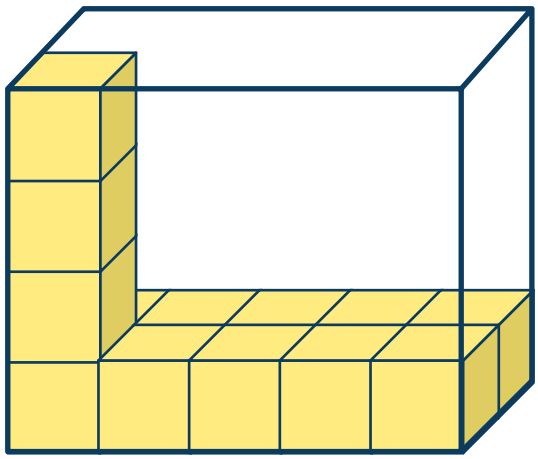
30 The rectangular prism is partially filled with unit cubes.



What is the volume of the rectangular prism?

A. 40 units^3
B. 13 units^3
C. 32 units^3
D. 24 units^3

---

31 A fruit salad recipe needs $2\frac{2}{3}$ cups of yogurt. How many cups of yogurt are needed for $4\frac{1}{2}$ recipes?

A. $8\frac{1}{3}$

B. 12

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

D. $6\frac{3}{5}$

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32 Which fractions simplify to $\frac{3}{5}$? Select **all** the correct answers.

A. $\frac{12}{20}$

B. $\frac{18}{25}$

C. $\frac{3}{10}$

D. $\frac{60}{100}$

E. $\frac{35}{50}$

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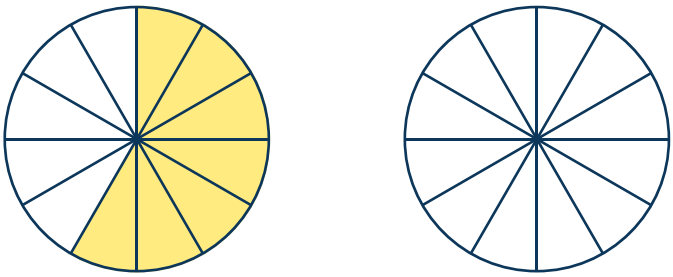
33 Chase and Koa ordered two small pizzas for dinner. The shaded part shows the pizza that Chase ate. Koa ate $\frac{1}{3}$ more of the pizza than Chase.



How much pizza did Koa eat?

A. $\frac{7}{12}$

B. $\frac{11}{12}$

C. $\frac{15}{12}$

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

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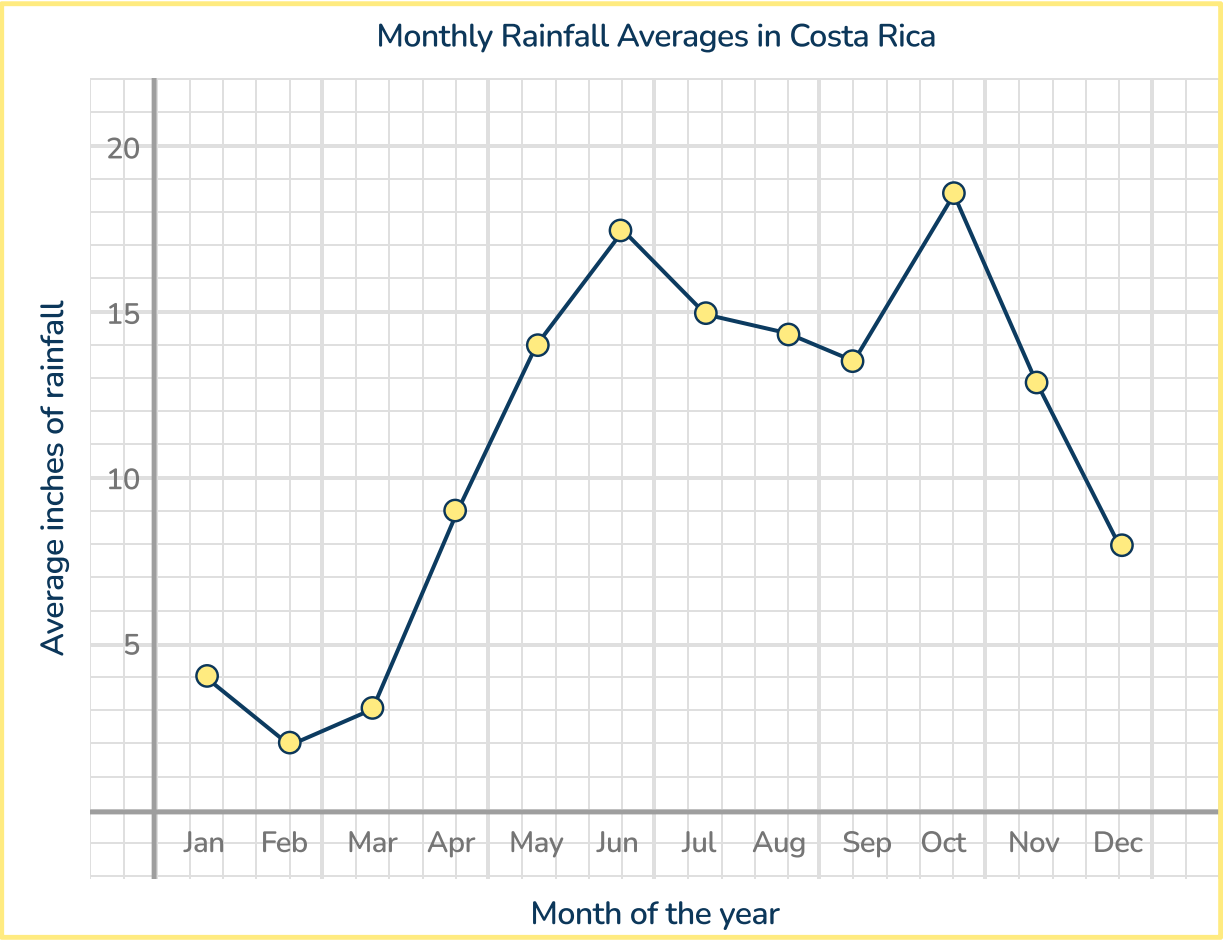
34



On average, how much more does it rain in December than in January and February?

A. $\frac{1}{2}$ of an inch
B. 3 inches
C. 2 inches
D. 4 inches

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

Which equation fits the story context?

A. $5 \div \frac{1}{5} = 25$

B. $\frac{1}{5} \div 5 = \frac{1}{25}$

C. $5 \times \frac{1}{5} = 25$

D. $\frac{1}{5} \times 5 = \frac{1}{25}$

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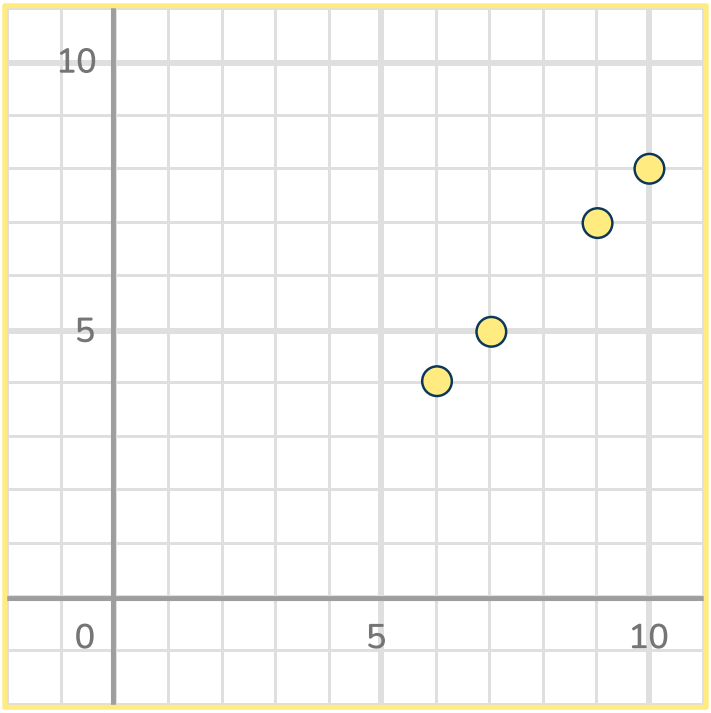
36



Which is the function table of the ordered pairs in the graph?

A.

x	10	9	7	6
y	8	7	5	4

B.

x	8	7	5	4
y	10	9	7	6

C.

x	10	9	8	7
y	8	7	5	4

D.

x	8	7	5	4
y	10	9	8	7

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37

$0.4 \times 10^1 = 4$ $\quad$ $4 \div 10^1 = 0.4$

$0.4 \times 10^2 = 40$ $\quad$ $40 \div 10^2 = 0.4$

$0.4 \times 10^3 = 400$ $\quad$ $400 \div 10^3 = 0.4$

Which statement about the equations is true?

A. The exponent in $0.4 \times 10^2 = 40$ shows that 40 is 1,000 times larger than 0.4

B. The exponent in $400 \div 10^3 = 0.4$ shows that 0.4 is 3 times smaller than 400

C. The exponent in $40 \div 10^2 = 0.4$ shows that 4 tens is 100 place values larger than 4 tenths

D. The exponent in $0.4 \times 10^3 = 400$ shows that 4 tenths is 3 place values smaller than 4 hundreds

---

38 Simone's bag of apples weighs 3.34 pounds. Simone's bag of apples weighs 1.49 pounds less than Daylin's bag. How much does Daylin's bag weigh?

A. 1.85 pounds

B. 4.83 pounds

C. 2.15 pounds

D. 4.73 pounds

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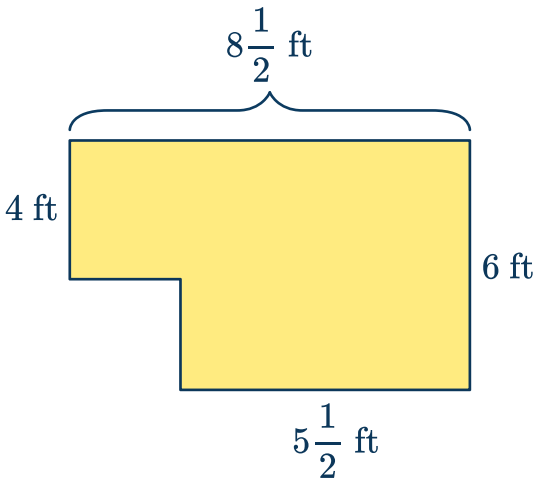
39 A new carpet is being added to a bedroom. What is the area of the new carpet?



A. 29 square feet
B. 67 square feet
C. 45 square feet
D. 24 square feet

---

40 Solve $2\frac{5}{6} \times \frac{2}{3} =$ ___

A. $2\frac{10}{18}$

B. $1\frac{16}{18}$

C. $2\frac{20}{36}$

D. $1\frac{34}{36}$

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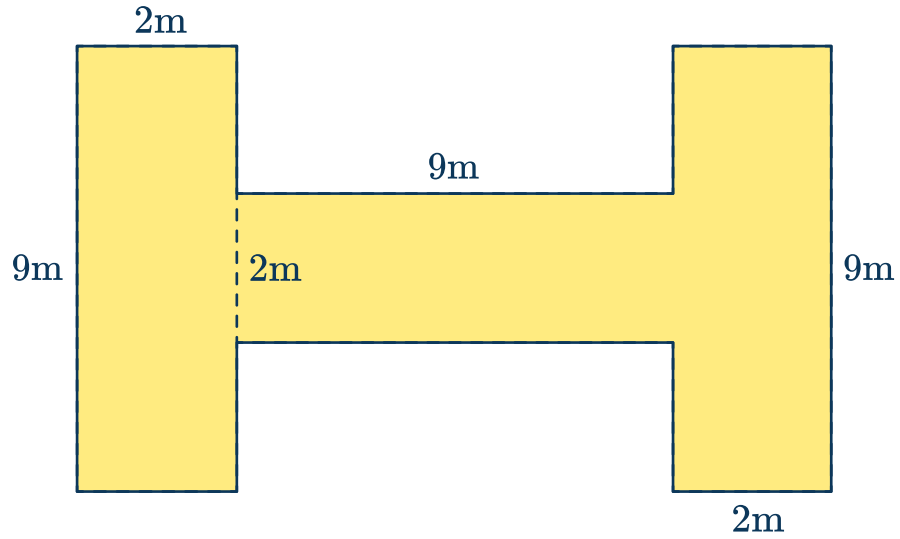
41 Janae wants to put a fence around her garden.



How many meters of fence does she need?

A. 58
B. 33
C. 54
D. 72

---

42 Lettie gave 11 stickers to her sister and 18 stickers to her brother. Lettie started with 40 stickers. Which expression shows how many stickers Lettie has left?

A. 40 – 11 + 18
B. 11 + 18 – 40
C. 40 – 11 – 18
D. 11 + 18 + 40

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43 What is the correct way to write 560.204 in expanded form?

A. $5 \times 100 + 6 \times 10 + 2 \times (\frac{1}{10}) + 4 \times (\frac{1}{1{,}000})$

B. $5 \times 100 + 6 \times 1 + 2 \times (\frac{1}{100}) + 4 \times (\frac{1}{1{,}000})$

C. $5 \times 100 + 6 \times 10 + 2 \times 1 + 4 \times (\frac{1}{100})$

D. $5 \times 10 + 6 \times 1 + 2 \times (\frac{1}{10}) + 4 \times (\frac{1}{100})$

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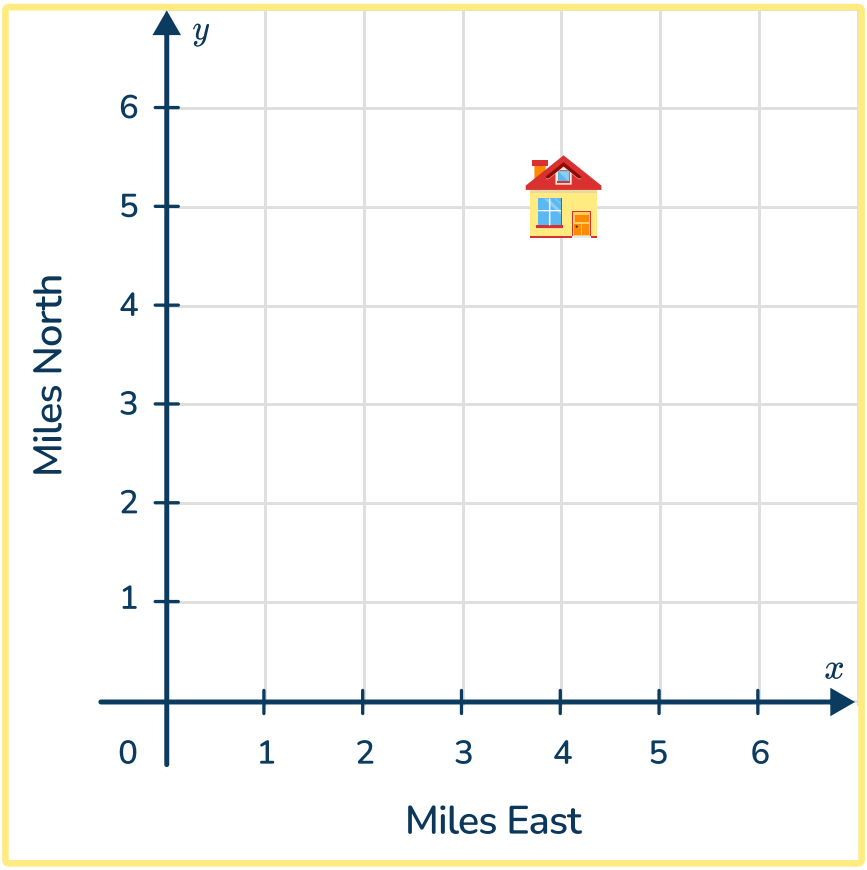
44 Marshawn drew a map to show how far his house is from his friend Amit's house.



On the map, Marshawn's house is located at (0,0). Amit's house is located at (4, 5). Which statement about the map is true?

A. Marshawn's house is 4 miles east and 5 miles north of Amit's house.
B. Marshawn's house is 5 miles east and 4 miles north of Amit's house.
C. Amit's house is 5 miles east and 4 miles north of Marshawn's house.
D. Amit's house is 4 miles east and 5 miles north of Marshawn's house.

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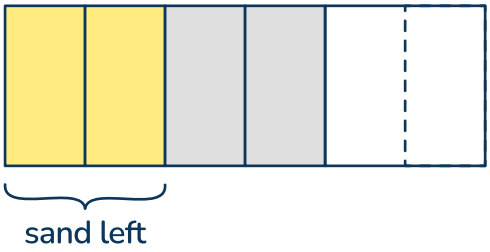
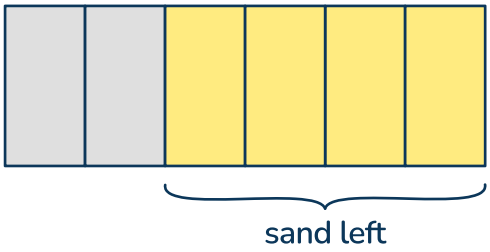
45 Flora had $\frac{2}{3}$ of a pound of sand. She used $\frac{1}{2}$ of the sand.
Flora drew a model to show 1 pound of sand. She used the model to show how much sand she had left. Which model shows how much sand Flora has left?

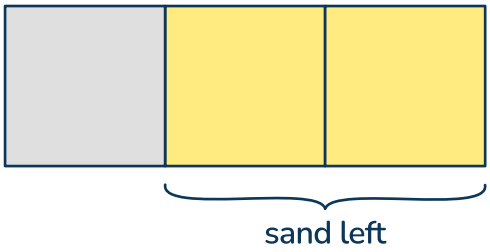
A.



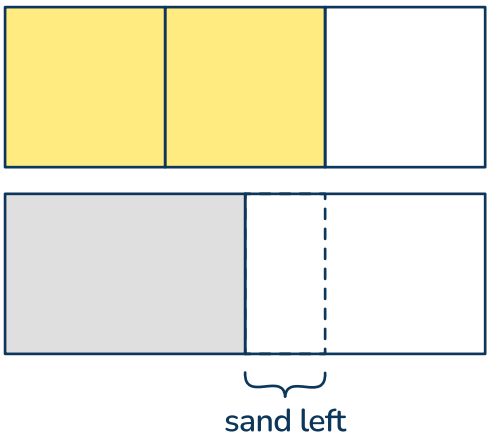
B



C.



D.



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46 A runner's time for a race is 9.678 seconds. Rounded to the nearest hundredth of a second, what is the runner's time?

A. 9.60 seconds
B. 9.68 seconds
C. 9.70 seconds
D. 10.0 seconds

47 A bolt costs $0.68. How much will it cost to buy 17 bolts?

A. $11.56
B. $17.68
C. $10.66
D. $5.44

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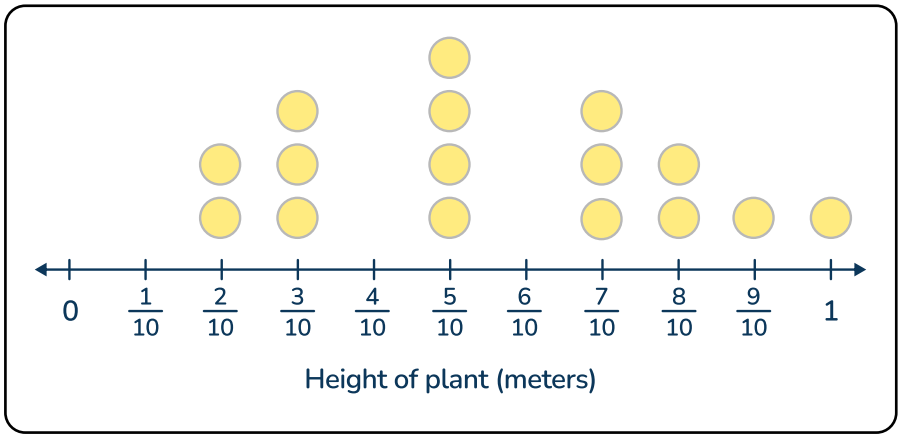
48 Jalen graphed the heights of some plants on the line plot.



What is the range of the data set?

A. $\frac{7}{10}$

B. $\frac{8}{10}$

C. $\frac{5}{10}$

D. $\frac{4}{10}$

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49 Solve $5\frac{3}{25} + 14\frac{7}{50} =$ ___

A. $19\frac{1}{5}$

B. $20\frac{26}{100}$

C. $19\frac{13}{50}$

D. $20\frac{1}{25}$

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50 Which change will make 60.18 greater than 60.4? Select **all** the correct answers.

A. Moving the digit 1 two places to the right
B. Moving the digit 4 one place to the left
C. Moving the digit 8 two places to the left
D. Moving the digit 4 one place to the right
E. Moving the digit 8 one place to the right

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Answer Key - Multiple Choice

Item number	Correct answer	Standard(s)	DOK
1	A	**5.PAFR.3.4**	DOK 2
2	C	**5.DPSR.2.1**	DOK 1
3	A	**5.PAFR.3.3**	DOK 2
4	B	**5.DPSR.1.1**	DOK 2
5	D	**5.MGSR.2.2**	DOK 3
6	C	**5.PAFR.2.1**	DOK 2
7	B	**5.PAFR.3.1**	DOK 2
8	D	**5.NR.1.2**	DOK 1
9	C	**5.PAFR.2.3**	DOK 2
10	A	**5.PAFR.1.4**	DOK 2
11	B	**5.PAFR.1.1**	DOK 2
12	A	**5.PAFR.2.2**	DOK 3
13	A	**5.MGSR.3.1**	DOK 1
14	B	**5.MGSR.1.1**	DOK 2
15	D	**5.NR.1.1**	DOK 1
16	C	**5.PAFR.2.3**	DOK 1
17	A	**5.PAFR.1.3**	DOK 2
18	D	**5.PAFR.1.2**	DOK 2
19	B	**5.DPSR.1.2**	DOK 2

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Item number	Correct answer	Standard(s)	DOK
20	C	**5.PAFR.1.1**	DOK 2
21	D	**5.MGSR.2.1**	DOK 1
22	C	**5.PAFR.2.3**	DOK 2
23	B	**5.PAFR.2.1**	DOK 2
24	D	**5.NR.1.3**	DOK 1
25	A	**5.DPSR.1.3**	DOK 3
26	D	**5.PAFR.1.2**	DOK 2
27	B	**5.PAFR.2.2**	DOK 3
28	B, D	**5.NR.2.1**	DOK 2
29	D	**5.MGSR.2.1**	DOK 2
30	A	**5.MGSR.1.2**	DOK 2
31	B	**5.PAFR.2.2**	DOK 2
32	A, D	**5.PAFR.3.2**	DOK 1
33	B	**5.PAFR.2.1**	DOK 2
34	C	**5.DPSR.1.2**	DOK 2
35	B	**5.PAFR.2.3**	DOK 2
36	A	**5.MGSR.3.1**	DOK 2
37	D	**5.NR.1.4**	DOK 3
38	B	**5.PAFR.1.3**	DOK 2
39	C	**5.MGSR.1.1**	DOK 2
40	B	**5.PAFR.2.2**	DOK 2

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Item number	Correct answer	Standard(s)	DOK
41	A	**5.MGSR.1.1**	DOK 3
42	C	**5.PAFR.3.4**	DOK 2
43	A	**5.NR.1.1**	DOK 1
44	D	**5.MGSR.3.2**	DOK 2
45	A	**5.PAFR.2.2**	DOK 2
46	B	**5.NR.1.3**	DOK 1
47	A	**5.PAFR.1.4**	DOK 2
48	B	**5.DPSR.1.1**	DOK 2
49	C	**5.PAFR.2.1**	DOK 1
50	C, D	**5.NR.1.2**	DOK 2

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ANSWERS SORTED BY REPORTING CATEGORIES

Numerical Reasoning			
Item number	Correct answer	Standard(s)	DOK
8	D	**5.NR.1.2**	DOK 1
15	D	**5.NR.1.1**	DOK 1
24	D	**5.NR.1.3**	DOK 1
28	B, D	**5.NR.2.1**	DOK 2
37	D	**5.NR.1.4**	DOK 3
43	A	**5.NR.1.1**	DOK 1
46	B	**5.NR.1.3**	DOK 1
50	C, D	**5.NR.1.2**	DOK 2

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Patterns, Algebra and Functional Reasoning			
Item number	Correct answer	Standard(s)	DOK
1	A	**5.PAFR.3.4**	DOK 2
3	A	**5.PAFR.3.3**	DOK 2
6	C	**5.PAFR.2.1**	DOK 2
7	B	**5.PAFR.3.1**	DOK 2
9	C	**5.PAFR.2.3**	DOK 2
10	A	**5.PAFR.1.4**	DOK 2
11	B	**5.PAFR.1.1**	DOK 2
12	A	**5.PAFR.2.2**	DOK 3
16	C	**5.PAFR.2.3**	DOK 1
17	A	**5.PAFR.1.3**	DOK 2
18	D	**5.PAFR.1.2**	DOK 2
20	C	**5.PAFR.1.1**	DOK 2
22	C	**5.PAFR.2.3**	DOK 2
23	B	**5.PAFR.2.1**	DOK 2
26	D	**5.PAFR.1.2**	DOK 2
27	B	**5.PAFR.2.2**	DOK 3
31	B	**5.PAFR.2.2**	DOK 2
32	A, D	**5.PAFR.3.2**	DOK 1
33	B	**5.PAFR.2.1**	DOK 2
35	B	**5.PAFR.2.3**	DOK 2

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Patterns, Algebra and Functional Reasoning			
Item number	Correct answer	Standard(s)	DOK
38	B	**5.PAFR.1.3**	DOK 2
40	B	**5.PAFR.2.2**	DOK 2
42	C	**5.PAFR.3.4**	DOK 2
45	A	**5.PAFR.2.2**	DOK 2
47	A	**5.PAFR.1.4**	DOK 2
49	C	**5.PAFR.2.1**	DOK 1

Data, Probability and Statistical Reasoning			
Item number	Correct answer	Standard(s)	DOK
2	C	**5.DPSR.2.1**	DOK 1
4	B	**5.DPSR.1.1**	DOK 2
19	B	**5.DPSR.1.2**	DOK 2
25	A	**5.DPSR.1.3**	DOK 3
34	C	**5.DPSR.1.2**	DOK 2
48	B	**5.DPSR.1.1**	DOK 2

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Measurement, Geometry and Spatial Reasoning			
Item number	Correct answer	Standard(s)	DOK
5	D	**5.MGSR.2.2**	DOK 3
13	A	**5.MGSR.3.1**	DOK 1
14	B	**5.MGSR.1.1**	DOK 2
21	D	**5.MGSR.2.1**	DOK 1
29	D	**5.MGSR.2.1**	DOK 2
30	A	**5.MGSR.1.2**	DOK 2
36	A	**5.MGSR.3.1**	DOK 2
39	C	**5.MGSR.1.1**	DOK 2
41	A	**5.MGSR.1.1**	DOK 3
44	D	**5.MGSR.3.2**	DOK 2

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