Choose the correct answer.

1. Judith has a necklace with a mass of 65.736 grams. What is the mass of her necklace rounded to the nearest tenth?

Ⓐ 65.7 grams

Ⓑ 65.74 grams

Ⓒ 65.8 grams

Ⓓ 66.0 grams

2. The library is 3.56 kilometers from Maria's house and 1.38 kilometers from Simon's house. How much farther does Maria live from the library than Simon?

Ⓐ 4.94 kilometers

Ⓑ 2.28 kilometers

Ⓒ 2.18 kilometers

Ⓓ 1.18 kilometers

3. Crystal's tomato plant was 32.65 centimeters tall in June. During July, the plant grew 82.6 centimeters. How tall was Crystal's tomato plant at the end of July?

Ⓐ 409.1 centimeters

Ⓑ 115.25 centimeters

Ⓒ 49.95 centimeters

Ⓓ 40.91 centimeters

4. Rick and Chad are playing a number pattern game. Rick wrote the following pattern.

32.3, 34.5, 36.7, ____, 41.1

What is the unknown number in the pattern Rick wrote?

Ⓐ 37.9

Ⓑ 38.8

Ⓒ 38.9

Ⓓ 39.9

5. Yolanda read her book for $1\frac{1}{5}$ hours Monday evening and for $2\frac{3}{5}$ hours on Tuesday evening. Which is the **best** estimate of the time Yolanda read on Monday and Tuesday?

Ⓐ about $\frac{4}{5}$ hour

Ⓑ about 3 hours

Ⓒ about $3\frac{1}{2}$ hours

Ⓓ about 4 hours

GO ON

6. Francine has a piece of wood that is $5\frac{5}{12}$ feet long. She uses $3\frac{1}{4}$ feet of the wood for a science project. How much wood does Francine have left?

Ⓐ $8\frac{2}{3}$ feet

Ⓑ $3\frac{2}{12}$ feet

Ⓒ $2\frac{4}{12}$ feet

Ⓓ $2\frac{2}{12}$ feet

7. Kevin has 3 bags of apples weighing a total of $22\frac{1}{2}$ pounds. Two of the bags weigh $6\frac{3}{8}$ pounds and $3\frac{1}{4}$ pounds. How much does the third bag weigh?

Ⓐ $11\frac{7}{8}$ pounds

Ⓑ $12\frac{4}{8}$ pounds

Ⓒ $12\frac{7}{8}$ pounds

Ⓓ $13\frac{5}{8}$ pounds

8. Aisha hiked each day for a week. The first day she hiked $\frac{1}{6}$ mile, the second day she hiked $\frac{1}{2}$ mile, and the third day she hiked $\frac{5}{6}$ mile. By how much did she increase the distance she hiked each day?

Ⓐ $\frac{9}{6}$ miles

Ⓑ $\frac{5}{6}$ mile

Ⓒ $\frac{1}{2}$ mile

Ⓓ $\frac{1}{3}$ mile

9. A corn muffin recipe calls for $\frac{1}{4}$ cup of cornmeal and $\frac{5}{6}$ cup of flour. What is the least common denominator of the fractions?

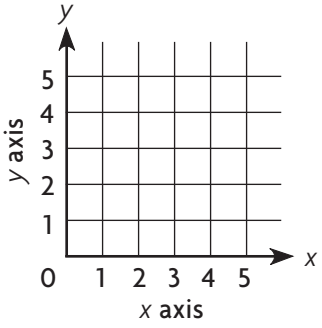
Ⓐ 6

Ⓑ 12

Ⓒ 18

Ⓓ 24

10. On a coordinate grid, Carrie's house is located 3 blocks to the right and 4 blocks up from (0, 0). Mike's house is located 2 blocks to the left and 2 blocks down from Carrie's house. What ordered pair describes the location of Mike's house?



Ⓐ (1, 5)

Ⓑ (2, 1)

Ⓒ (1, 2)

Ⓓ (5, 2)

GO ON

11. What is the unknown number in Sequence 2 in the chart?

Sequence Number	1	2	3	6	8
Sequence 1	4	8	12	24	32
Sequence 2	12	24	36	72	?

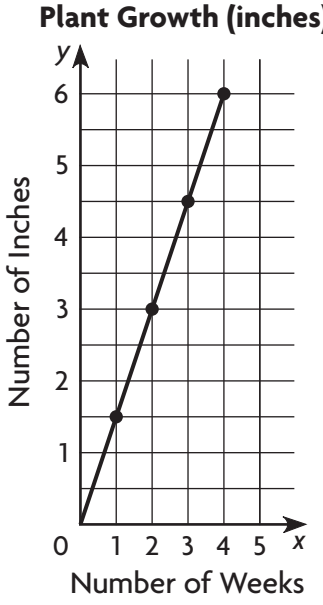
(A) 64

(B) 80

(C) 96

(D) 106

12. The graph shows the relationship between the number of weeks and plant growth in inches.



What rule relates the number of weeks and plant growth in inches?

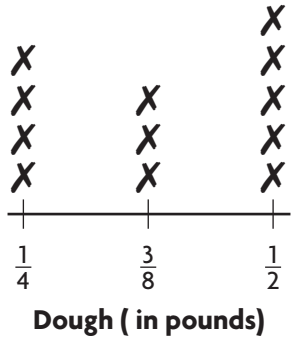
(A) Multiply the number of weeks by $1\frac{1}{2}$.

(B) Multiply the number of weeks by $1\frac{1}{3}$.

(C) Multiply the number of weeks by $1\frac{1}{4}$.

(D) Multiply the number of weeks by $\frac{1}{2}$.

13. A baker is weighing the dough that will be used to make pastries. The line plot shows the weight of the dough for each pastry.



How many pastries will be made from at least $\frac{3}{8}$ pound of dough?

(A) 4

(B) 7

(C) 8

(D) 9

14. Marvin is buying a new computer on layaway for $302. If he makes a down payment of $50 and pays $28 each week, how many weeks will it take Marvin to pay for the computer?

(A) 8

(B) 9

(C) 10

(D) 12

GO ON

15. Mary drew a picture of her flower garden.

What type of quadrilateral is Mary's garden?

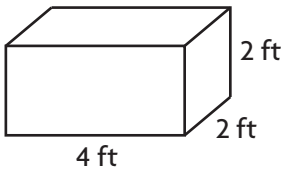
(A) rectangle

(B) rhombus

(C) square

(D) trapezoid

16. Dmitri made a box with the dimensions shown to hold his modeling supplies.



What is the volume of the box?

(A) 8 cubic feet

(B) 14 cubic feet

(C) 16 cubic feet

(D) 18 cubic feet

17. The sidewalk tiles leading to the town library are shaped like regular hexagons. Which of the following describes a regular hexagon?

(A) a figure with 6 congruent sides and 6 congruent angles

(B) a figure with 6 sides and angles that are not congruent

(C) a figure with 5 sides and 5 angles that are not congruent

(D) a figure with 5 congruent sides and 5 congruent angles

18. A toy box in the shape of a rectangular prism has a volume of 672 cubic inches. The base area of the toy box is 28 square inches. What is the height of the toy box?

(A) 10 inches

(B) 12 inches

(C) 22 inches

(D) 24 inches

19. A pizza parlor uses 42 tomatoes for each batch of tomato sauce. About how many batches of sauce can the pizza parlor make from its last shipment of 1,236 tomatoes?

(A) 20

(B) 30

(C) 35

(D) 48

GO ON

20. The art teacher has a list of 134 students who have signed up for art classes. The art teacher can register 8 students in each class. What is the least number of classes needed for all the students to be registered in a class?

Ⓐ 16

Ⓑ 17

Ⓒ 18

Ⓓ 19

21. The number of roses Mr. Adams ordered for his store was three times as many as the number of carnations ordered. He ordered a total of 56 flowers. How many roses did Mr. Adams order?

Ⓐ 14

Ⓑ 28

Ⓒ 34

Ⓓ 42

22. The owner of a clothing store received a shipment of 1,230 pairs of socks. The socks came in 36 boxes. The same number of pairs of socks were in 35 of the boxes. How many pairs of socks were in the last box?

Ⓐ 2

Ⓑ 5

Ⓒ 15

Ⓓ 35

23. Jared uses 24 tiles to cover the top of his desk. Of the 24 tiles, $\frac{3}{8}$ are blue. How many of the tiles are blue?

Ⓐ 3

Ⓑ 8

Ⓒ 9

Ⓓ 12

24. Tony worked $4\frac{2}{3}$ hours on his science project. Sonia worked $1\frac{1}{4}$ times as long on her science project as Tony did. For how many hours did Sonia work on her science project?

Ⓐ $4\frac{5}{6}$ hours

Ⓑ 5 hours

Ⓒ $5\frac{1}{3}$ hours

Ⓓ $5\frac{5}{6}$ hours

25. Julia had $\frac{2}{3}$ quart of cleaning liquid. She used $\frac{1}{4}$ of it to clean the sink counter. How much cleaning liquid did Julia use?

Ⓐ $\frac{1}{8}$ quart

Ⓑ $\frac{1}{6}$ quart

Ⓒ $\frac{1}{2}$ quart

Ⓓ $\frac{5}{12}$ quart

GO ON

26. Carlos had 24 class play tickets to sell. He sold $\frac{3}{4}$ of the tickets. How many tickets did Carlos sell?

(A) 16

(B) 18

(C) 24

(D) 26

27. Noreen made $8\frac{2}{3}$ cups of snack mix for a party. Her guests ate $\frac{3}{4}$ of the mix. How much snack mix did her guests eat?

(A) $5\frac{1}{4}$ cups

(B) $5\frac{3}{4}$ cups

(C) $6\frac{5}{12}$ cups

(D) $6\frac{1}{2}$ cups

28. Ganesh is stacking boxes in a storage room. There are 12 boxes in all. If each box weighs 9.6 pounds, how much do the boxes weigh altogether?

(A) 11.25 pounds

(B) 21.6 pounds

(C) 115.2 pounds

(D) 1,152 pounds

29. The instruction booklet for a DVD player says that the player uses about 0.4 kilowatt of electricity per hour. If electricity costs $0.20 per kilowatt hour, how much does it cost to run the player for an hour?

(A) $0.08

(B) $0.80

(C) $8.00

(D) $80.00

30. Rhianna was doing research for a report about the highest mountains in the United States. She read that the Grand Teton in Wyoming is about 1.37×10^4 feet high. How should Rhianna write the height of the Grand Teton in standard form on her report?

(A) 137 feet

(B) 1,370 feet

(C) 13,700 feet

(D) 137,000 feet

GO ON

31. Jeremy is training for a race. When he trains, he runs on a path that is 1.25 miles long. Last week, Jeremy ran on the path 7 times. How many miles did Jeremy run on the path last week?

(A) 0.875 mile

(B) 8.75 miles

(C) 87.5 miles

(D) 875 miles

32. There is $\frac{1}{3}$ pound of cake that will be shared equally among 4 friends. What fraction of a pound of cake will each friend get?

(A) $\frac{1}{12}$ pound

(B) $\frac{1}{6}$ pound

(C) $\frac{1}{2}$ pound

(D) $\frac{3}{4}$ pound

33. At lunch, 5 friends share 3 pizzas equally. What fraction of a pizza does each friend get?

(A) $\frac{3}{5}$

(B) $\frac{2}{3}$

(C) $\frac{3}{4}$

(D) $1\frac{1}{5}$

34. Julie has $\frac{3}{4}$ quart of fruit juice. She pours the same amount into each of 4 glasses. Which equation represents the fraction of a quart of fruit juice n that is in each glass?

(A) $\frac{3}{4} \div \frac{1}{4} = n$

(B) $4 \div \frac{3}{4} = n$

(C) $\frac{3}{4} \div 4 = n$

(D) $3 \div 4 = n$

35. Terry evaluates $6 \div \frac{1}{8}$ by using a related multiplication expression. Which multiplication expression should he use?

(A) $6 \times \frac{1}{8}$

(B) $\frac{1}{6} \times \frac{1}{8}$

(C) $\frac{1}{6} \times 8$

(D) 6×8

GO ON

36. Eli made a loaf of bread. He gave equal portions of $\frac{1}{2}$ of the loaf to 3 friends. What diagram could Eli use to find the fraction of the whole loaf of bread that each friend got?

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

37. Lori rode her bicycle 19.5 miles in 3 hours. Which gives the best estimate of how far Lori rode in 1 hour?

Ⓐ between 4 and 5 miles

Ⓑ between 5 and 6 miles

Ⓒ between 6 and 7 miles

Ⓓ between 7 and 8 miles

38. Roger is riding in a bike-a-thon to raise money for his favorite charity. The total distance of the bike-a-thon is 38.7 miles. So far he has completed $\frac{1}{10}$ of the bike-a-thon. How many miles has Roger biked?

Ⓐ 387 miles

Ⓑ 38.7 miles

Ⓒ 3.87 miles

Ⓓ 0.387 mile

39. Ellen is making small bags of confetti from a large bag of confetti that weighs 4.75 pounds. If she puts the same amount of confetti in each of 5 bags, how much should each bag weigh?

Ⓐ 0.09 pound

Ⓑ 0.9 pound

Ⓒ 0.95 pound

Ⓓ 9.1 pounds

40. Trevor bought apples that cost $0.92 per pound. He paid $5.52 for the apples. How many pounds of apples did he buy?

Ⓐ 60 pounds

Ⓑ 6 pounds

Ⓒ 0.6 pound

Ⓓ 0.06 pound

GO ON

41. Carly spent a total of $18.20 on Saturday afternoon. She bought a movie ticket for $8.25 and snacks for $3.85. She spent the rest of the money on bus fare to get to the movie and back home. How much was the bus fare each way if each trip cost the same amount?

(A) $2.20

(B) $3.05

(C) $6.10

(D) $6.20

42. A publisher reports that it sold 1,516,792 travel magazines. What is the value of the digit 5 in 1,516,792 ?

(A) 5,000

(B) 50,000

(C) 500,000

(D) 5,000,000

43. Martin is buying 400 video games for his entertainment store. Each video game costs $20. Which of the following could he use to find the total amount he will pay for the video games?

(A) $(4 \times 2) \times 10^2 = 800$

(B) $(4 \times 2) \times 10^3 = 8{,}000$

(C) $(4 \times 2) \times 10^4 = 80{,}000$

(D) $(4 \times 2) \times 10^5 = 800{,}000$

44. Jamie's dad travels 365 miles every week for business. How many miles does he travel in 4 weeks?

(A) 1,260 miles

(B) 1,360 miles

(C) 1,450 miles

(D) 1,460 miles

45. Amber and her friend Nathan are saving to buy a video game that costs $65. Amber earns $12 per week for babysitting and spends $4 of it. Nathan earns $15 per week for walking dogs and spends $8 of it. Which expression can be used to find how many weeks it will take to save for the video game?

(A) $65 \div [(12 - 4) + (15 - 8)]$

(B) $65 \div [(12 + 4) - (15 + 8)]$

(C) $65 \div [(12 - 4) + (15 + 8)]$

(D) $65 \div [(12 + 4) - (15 - 8)]$

GO ON

46. Chen took 54 photos with his digital camera. He stored an equal number of photos in each of 6 folders on his computer. Which multiplication sentence could Chen use to find the number of photos in each folder?

(A) $54 \div 6 = 9$

(B) $5 \times 9 = 45$

(C) $6 \times 9 = 54$

(D) $6 \times 54 = 324$

47. Rachel's home is 5 miles from her school. How many yards are in 5 miles?

(A) 1,760 yards

(B) 7,800 yards

(C) 8,800 yards

(D) 26,400 yards

48. Sarah bought 6 pounds of clay for pottery class. How many ounces of clay did Sarah buy?

(A) 48 ounces

(B) 64 ounces

(C) 80 ounces

(D) 96 ounces

49. The basketball game at the high school started at 7:30 P.M. and ended at 10:38 P.M. How long did the game last?

(A) 2 hours 8 minutes

(B) 2 hours 18 minutes

(C) 3 hours 8 minutes

(D) 3 hours 18 minutes

50. Kate used 6.15 meters of ribbon to make bows. How many centimeters of ribbon did she use?

(A) 615 centimeters

(B) 61.5 centimeters

(C) 6.15 centimeters

(D) 0.615 centimeter