Choose the correct answer.

1. Dan's science magazine has a mass of 256.674 grams. What is the mass of his magazine rounded to the nearest tenth?

　A 257 grams

　B 256.6 grams

　C 256.7 grams

　D 256.67 grams

2. The middle school is 2.72 kilometers from Marsha's house and 1.54 kilometers from Ryan's house. How much farther does Marsha live from the middle school than Ryan?

　A 11.18 kilometers

　B 1.28 kilometers

　C 1.18 kilometers

　D 0.18 kilometer

3. Rico's backpack weighed 3.6 pounds. Then he added his school books which weighed an additional 24.76 pounds. How much did Rico's backpack weigh with his school books?

　A 60.76 pounds

　B 28.36 pounds

　C 27.82 pounds

　D 25.12 pounds

4. Lester and Kari are playing a number pattern game. Kari wrote the following pattern.

　　　45.5, 49, 52.5, _____, 59.5

What is the unknown number in the pattern Kari wrote?

　A 55.5

　B 56

　C 56.5

　D 58

5. Laura rode her bike for $3\frac{5}{8}$ hours on Saturday and for $4\frac{1}{4}$ hours on Sunday. Which is the best estimate of the time Laura spent riding her bike on Saturday and Sunday?

　A about 9 hours

　B about 8 hours

　C about 7 hours

　D about 6 hours

GO ON

6. Brent has a piece of rope that is $6\frac{5}{6}$ feet long. He uses $4\frac{1}{3}$ feet of the rope to hang a tire swing. How much rope does he have left?

A $3\frac{5}{6}$ feet

B $3\frac{1}{2}$ feet

C $2\frac{2}{3}$ feet

D $2\frac{1}{2}$ feet

7. John has 3 bundles of wood weighing a total of $35\frac{3}{4}$ pounds. Two of the bundles weigh $12\frac{3}{8}$ pounds and $8\frac{1}{2}$ pounds. How much does the third bundle weigh?

A $14\frac{7}{8}$ pounds

B $18\frac{7}{8}$ pounds

C $23\frac{3}{8}$ pounds

D $27\frac{1}{4}$ pounds

**8.** Maria practiced for her piano recital each day for three days. The first day she practiced for $\frac{3}{4}$ hour, the second day she practiced for $1\frac{1}{2}$ hours, and the third day she practiced for $2\frac{1}{4}$ hours. By how much did she increase the time she practiced each day?

A $\frac{1}{4}$ hour

B $\frac{1}{2}$ hour

C $\frac{3}{4}$ hour

D $\frac{7}{8}$ hour

9. A fruit salad recipe calls for $\frac{3}{4}$ pound of apples and $\frac{2}{5}$ pound of dates. What is the least common denominator of the fractions?

A 16

B 20

C 24

D 25

10. On a coordinate grid, Ming's house is located 2 blocks to the right and 5 blocks up from (0, 0). Joe's house is located 3 blocks to the right and 2 blocks down from Ming's house. What ordered pair describes the location of Joe's house?
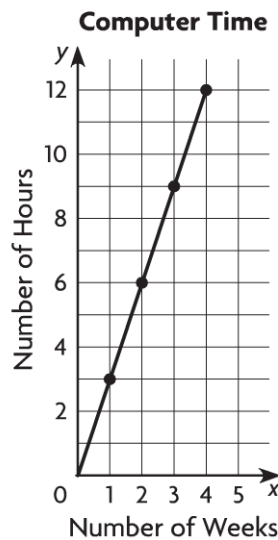

A (3, 5)

B (3, 2)

C (5, 3)

D (4, 3)

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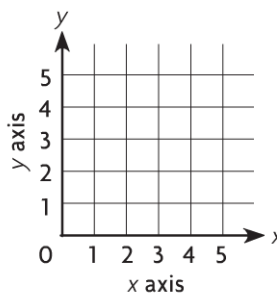
11. What is the unknown number in Sequence 2 in the chart?

Sequence Number	1	2	3	5	7
Sequence 1	7	14	21	35	49
Sequence 2	21	42	63	105	?

- **A** 126
- **B** 127
- **C** 147
- **D** 154

12. The graph shows the relationship between the number of weeks and the number of hours spent on the computer.

Computer Time

What rule relates the number of weeks to the number of hours of computer time?

- **A** Multiply the number of weeks by 3.
- **B** Multiply the number of weeks by 2.
- **C** Multiply the number of weeks by $2\frac{1}{2}$.
- **D** Multiply the number of hours by 3.

13. Otis is cutting a long piece of wood trim into smaller pieces for an art project. The line plot shows the length of the smaller pieces of wood.
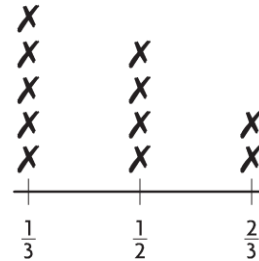
Length of Wood Pieces (in feet)

How many pieces of wood will be at **least** $\frac{1}{2}$ foot in length?

- **A** 9
- **B** 7
- **C** 6
- **D** 4

14. Adela is buying a DVD player on layaway for $210. If she makes a down payment of $30 and pays $15 each week, how many weeks will it take Adela to pay for the DVD player?

- **A** 10
- **B** 12
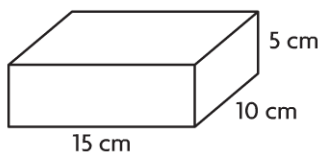- **C** 16
- **D** 14

GO ON

15. Tony drew a picture of his vegetable garden.

What type of quadrilateral is Tony's vegetable garden?

A rectangle

B rhombus

C square

D trapezoid

16. Kevin made a jewelry box with the dimensions shown.

5 cm

10 cm

15 cm

What is the volume of the jewelry box?

A 750 cubic centimeters

B 225 cubic centimeters

C 150 cubic centimeters

D 75 cubic centimeters

17. The bricks Mr. Johnson used to make his patio are shaped like regular octagons. Which of the following describes a regular octagon?

A a figure with 6 sides and 6 angles that are not congruent

B a figure with 6 congruent sides and 6 congruent angles

C a figure with 8 congruent sides and 8 congruent angles

D a figure with 5 congruent sides and 5 congruent angles

18. A shipping carton in the shape of a rectangular prism has a volume of 7,776 cubic inches. The base area of the shipping carton is 432 square inches. What is the height of the shipping carton?

A 15 inches

B 18 inches

C 19 inches

D 28 inches

19. The Ceramic Tile Company uses 32 tiles for each counter top it makes. About how many counter tops can it make from its last shipment of 1,486 tiles?

A 65

B 60

C 50

D 40

GO ON

20. The swimming instructor has a list of 152 students who have signed up for swimming lessons. The swimming instructor can register 12 students in each class. What is the least number of classes needed for all the students to be registered in a class?

- **A** 12
- **B** 13
- **C** 14
- **D** 15

21. Kayla has a T-shirt store. She sold three times as many white T-shirts as blue T-shirts. She sold a total of 48 T-shirts. How many white T-shirts did Kayla sell?

- **A** 46
- **B** 36
- **C** 24
- **D** 12

22. The owner of a music store received a shipment of 1,532 CDs. The CDs came in 37 boxes. The same number of CDs were in 36 of the boxes. How many CDs were in the remaining box?

- **A** 2
- **B** 10
- **C** 20
- **D** 41

23. Miguel has 48 coins. Of the 48 coins, $\frac{5}{8}$ are dimes. How many of the coins are dimes?

- **A** 30
- **B** 26
- **C** 20
- **D** 18

24. Dominic spent $2\frac{3}{4}$ hours on his art project. Rachel worked $1\frac{1}{3}$ times as long on her art project as Dominic worked. For how many hours did Rachel work on her art project?

- **A** $2\frac{2}{3}$ hours
- **B** 3 hours
- **C** $3\frac{2}{3}$ hours
- **D** $4\frac{7}{12}$ hours

25. Ariana has $\frac{2}{3}$ quart of milk. She uses $\frac{3}{4}$ of it in a cookie recipe. How much milk did Ariana use in her recipe?

- **A** $\frac{1}{8}$ quart
- **B** $\frac{1}{4}$ quart
- **C** $\frac{1}{3}$ quart
- **D** $\frac{1}{2}$ quart

GO ON

26. Brian had 42 class fair tickets to sell. He sold $\frac{5}{6}$ of the tickets. How many tickets did Brian sell?

- **A** 40
- **B** 35
- **C** 25
- **D** 7

27. Zoey made $6\frac{3}{4}$ cups of fruit salad for a picnic. At the picnic, they ate $\frac{1}{3}$ of the fruit salad. How much fruit salad did they eat?

- **A** $1\frac{1}{4}$ cups
- **B** $1\frac{3}{4}$ cups
- **C** $2\frac{1}{4}$ cups
- **D** $3\frac{1}{4}$ cups

28. Hiroshi is stacking bricks to make a garden wall. There are 18 bricks in all. If each brick weighs 5.3 pounds, how much do the bricks weigh in all?

- **A** 9.54 pounds
- **B** 95.4 pounds
- **C** 144 pounds
- **D** 954 pounds

29. A 120-watt light bulb uses about 0.1 kilowatt of electricity per hour. If electricity costs $0.20 per kilowatt hour, how much does it cost to have the bulb on for an hour?

- **A** $0.02
- **B** $0.20
- **C** $2.00
- **D** $20.00

30. Jeff had reached the highest level on his new computer game. The computer reported his score as 1.35×10^5 points. How should Jeff write his score in standard form?

- **A** 135
- **B** 1,350
- **C** 13,500
- **D** 135,000

GO ON

31. Mario went on a hike with his friends. They hiked 2.24 miles an hour for 8 hours. How many miles did they hike in all?

  A   1.792 miles

 **B**   17.92 miles

  C   19.92 miles

  D 179.2 miles

34. Luis has $\frac{5}{8}$ quart of grape juice. He pours the same amount into each of 5 glasses. Which equation represents the fraction of a quart of grape juice n that is in each glass?

  A $\frac{5}{8} \div \frac{1}{5} = n$

  B $5 \div \frac{5}{8} = n$

  C $\frac{5}{8} \div 5 = n$

  D $5 \div 8 = n$

32. There is $\frac{1}{2}$ gallon of fruit punch that will be shared equally among 5 friends. What fraction of a gallon of punch will each friend get?

  A $\frac{1}{4}$ gallon

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

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

  D $\frac{1}{12}$ gallon

35. Yoko evaluates $7 \div \frac{1}{6}$ by using a related multiplication expression. Which multiplication expression should she use?

  A $\frac{1}{7} \times \frac{1}{6}$

  B 7×6

  C $\frac{1}{7} \times 6$

  D $7 \times \frac{1}{6}$

33. At lunch, 8 friends share 6 sandwiches equally. What fraction of a sandwich does each friend get?

  A $\frac{3}{4}$

  B $\frac{2}{3}$

  C $\frac{1}{2}$

  D $\frac{1}{3}$

GO ON

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

A

B

C

D
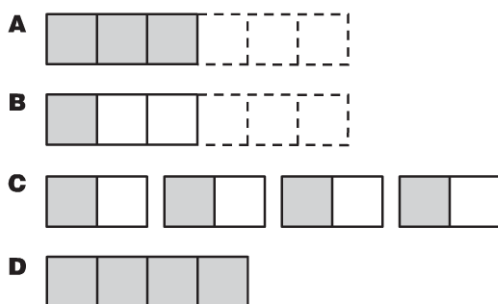
37. Adela rode her bicycle 18.3 miles in 5 hours. Which gives the **best** estimate of how far Adela rode in 1 hour?

A between 5 and 6 miles

B between 4 and 5 miles

C between 3 and 4 miles

D between 2 and 3 miles

38. Lauren is running in a marathon to raise money for her favorite charity. The total distance of the marathon is 12.5 miles. So far she has run $\frac{1}{10}$ of the marathon. How far has Lauren run?

A 12.5 miles

B 2.25 miles

C 1.25 miles

D 0.125 mile

39. Tony is making small bags of bird seed from a larger bag of bird seed that weighs 11.16 pounds. If he puts the same amount of seed in each of 6 bags, how much will each bag weigh?

A 0.18 pound

B 1.86 pounds

C 1.96 pounds

D 2.86 pounds

40. Leon bought trail mix that cost $0.78 per pound. He paid $6.24 for the trail mix. How many pounds of trail mix did he buy?

A 8 pounds

B 7 pounds

C 0.8 pound

D 0.08 pound

GO ON

41. Jordan spent a total of $14.85 on a trip to the zoo. She spent $6.50 to get into the zoo and $2.85 on snacks. How much did she spend on bus fares to and from the zoo?

   A $5.05

   B $5.50

   C $8.35

   D $9.35

42. A museum announces that it has just had its 1,326,871 visitor. What is the value of the digit 6 in 1,326,871?

   A   6,000

   B   60,000

   C   600,000

   D 6,000,000

43. Ricardo just received a shipment of 50 tool sheds for his garden supply store. Each shed costs him $40. Which of the following could Ricardo use to find the total amount he will pay for the tool sheds?

   A $(5 \times 4) \times 10^1 = 200$

   B $(5 \times 4) \times 10^2 = 2,000$

   C $(5 \times 4) \times 10^3 = 20,000$

   D $(5 \times 4) \times 10^4 = 200,000$

44. Mark's father travels 463 miles every month for his job. How many miles does he travel in 8 months?

   A 3,204 miles

   B 3,284 miles

   C 3,604 miles

   D 3,704 miles

45. Lucas and his sister Luisa are saving to buy a birthday present for their mother. The present costs $95. Lucas earns $16 per week running errands for neighbors and spends $7 of it. Luisa earns $24 per week babysitting and spends $12 of it. Which expression can be used to find how many weeks it will take to save for the present?

   A $95 \div [(16 + 7) - (24 - 12)]$

   B $95 \div [(16 + 7) - (24 + 12)]$

   C $95 \div [(16 - 7) + (24 - 12)]$

   D $95 \div [(16 - 7) + (24 + 12)]$

GO ON

46. Hoy uploaded 56 photos to his computer. He put an equal number of photos in each of 8 folders. Which multiplication sentence could Hoy use to find the number of photos in each folder?

- **A** $8 \times 9 = 72$
- **B** $8 \times 8 = 64$
- **C** $7 \times 8 = 56$
- **D** $6 \times 8 = 48$

47. Ella's home is 1,200 feet from the mall. How many yards are in 1,200 feet?

- **A** 300 yards
- **B** 400 yards
- **C** 450 yards
- **D** 600 yards

48. Mason bought 64 ounces of modeling clay. How many pounds of clay did he buy?

- **A** 2 pounds
- **B** 3 pounds
- **C** 4 pounds
- **D** 6 pounds

49. The movie started at 6:32 P.M. and ended at 9:48 P.M. How long did the movie last?

- **A** 2 hours 6 minutes
- **B** 2 hours 16 minutes
- **C** 3 hours 16 minutes
- **D** 3 hours 6 minutes

50. Ben used 325 centimeters of ribbon to trim banners he made. How many meters of ribbon did he use?

- **A** 0.0325 meter
- **B** 0.325 meter
- **C** 3.25 meters
- **D** 32.5 meters

STOP