

Mathematics

Directions:

Today you will be taking the Grade 5 Mathematics End-of-Year Assessment Practice Test.

Read each question carefully. Some questions will ask you to choose one correct answer, while others will ask you to choose more than one correct answer. Mark your answers by filling in the circles in your test booklet for the answers you choose.

Do not make any stray marks on the test booklet. If you need to change an answer in your test booklet, be sure to erase your first answer completely.

If you do not know the answer to a question, skip it and go on.

Directions for Completing the Answer Grids

1. Work the problem and find an answer.
2. Write your answer in the boxes at the top of the grid.
 - Print your answer starting with the first digit in the left box.
 - Print only one digit or symbol in each box. You may not need all the boxes to enter an answer, but do not leave a blank box in the middle of an answer.
3. Under each box in which you wrote your answer, fill in the bubble that matches the number or symbol you wrote above.
 - Fill in one and **ONLY** one bubble for each box. Do not fill in a bubble under an unused box.
 - Fill in each bubble by making a solid mark that completely fills the circle.
 - Fractions cannot be entered into an answer grid and will not be scored. Enter fractions as decimals.
4. See below for examples on how to correctly complete an answer grid.

To answer 632 in a question, fill in the answer grid as shown on the left in your Test Booklet.

6	3	2			
•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	•	2	2	2
3	•	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
•	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

To answer .75 in a question, fill in the answer grid as shown on the right in your Test Booklet.

.	7	5			
•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	•	5	5	5
6	6	6	6	6	6
7	•	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

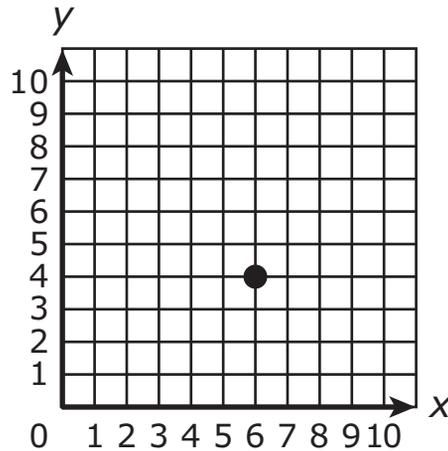
1. Jim uses ribbon to make bookmarks. Jim has 9 feet of ribbon. He uses $\frac{1}{3}$ foot of ribbon to make each bookmark.

What is the total number of bookmarks Jim makes with all 9 feet of ribbon?

Enter your answer in the box.

●	●	●	●	●	●
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

2. Select the **three** statements that correctly describe the point plotted on the coordinate plane.



- Ⓐ The point is located at the ordered pair (4, 6).
- Ⓑ The point is located at the ordered pair (6, 4).
- Ⓒ The x-coordinate is 6 and the y-coordinate is 4.
- Ⓓ The x-coordinate is 4 and the y-coordinate is 6.
- Ⓔ The point is 4 units to the right of the origin on the x-axis and 6 units up from the origin on the y-axis.
- Ⓕ The point is 6 units to the right of the origin on the x-axis and 4 units up from the origin on the y-axis.

3. Enter your answer in the box.

$$3 \times (8 + 16) \div 4 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

4. Len walks $\frac{3}{10}$ mile in the morning to school. He walks $\frac{2}{5}$ mile in the afternoon to a friend's house.

Len says that he walks a total of $\frac{5}{15}$ mile in the morning and afternoon.

Which **two** statements are true?

- Ⓐ Since $\frac{3}{10}$ plus $\frac{2}{5}$ is $\frac{5}{15}$, the total of $\frac{5}{15}$ is reasonable.
- Ⓑ Since $\frac{5}{15}$ is less than $\frac{2}{5}$, the total of $\frac{5}{15}$ is not reasonable.
- Ⓒ The fractions $\frac{5}{15}$, $\frac{3}{10}$, and $\frac{2}{5}$ are all less than $\frac{1}{2}$, so the total of $\frac{5}{15}$ is reasonable.
- Ⓓ The fraction $\frac{5}{15}$ is $\frac{1}{3}$, and $\frac{1}{3}$ is greater than $\frac{3}{10}$. Since $\frac{5}{15}$ is greater than one of the addends, the total of $\frac{5}{15}$ is reasonable.
- Ⓔ The fractions $\frac{3}{10}$ and $\frac{2}{5}$ are each greater than $\frac{1}{4}$, so the total must be greater than $\frac{1}{2}$. The fraction $\frac{5}{15}$ is less than $\frac{1}{2}$, so the total of $\frac{5}{15}$ is not reasonable.

Use the information provided to answer Part A and Part B for question 5.

Tom has a water tank that holds 5 gallons of water.

5. Part A

Tom uses water from a full tank to fill 6 bottles that each hold 16 ounces and a pitcher that holds $\frac{1}{2}$ gallon.

How many ounces of water are left in the water tank?

Enter your answer in the box.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Part B

Tom drinks 4 pints of water a day.

How many full tanks of water will he drink in 30 days?

Enter your answer in the box.

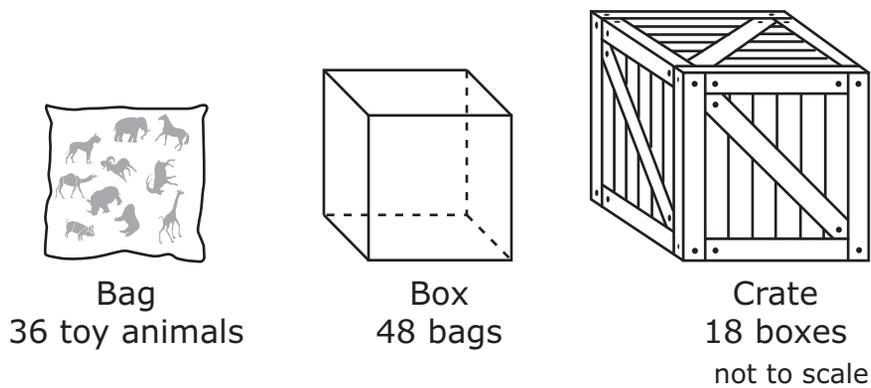
•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

6. Which **two** statements about rounding decimals are correct?
- Ⓐ The number 5.066 rounded to the nearest hundredth is 5.07.
 - Ⓑ The number 5.074 rounded to the nearest hundredth is 5.08.
 - Ⓒ The number 5.117 rounded to the nearest hundredth is 5.10.
 - Ⓓ The number 5.108 rounded to the nearest hundredth is 5.11.
 - Ⓔ The number 5.025 rounded to the nearest hundredth is 5.02.
7. Which explanation about figures is correct?
- Ⓐ All rhombuses are parallelograms. Parallelograms have 2 pairs of parallel sides. Therefore, all rhombuses have 2 pairs of parallel sides.
 - Ⓑ All rhombuses are parallelograms. Parallelograms have exactly 1 pair of parallel sides. Therefore, all rhombuses have exactly 1 pair of parallel sides.
 - Ⓒ Only some rhombuses are parallelograms. Parallelograms have 2 pairs of parallel sides. Therefore, only some rhombuses have 2 pairs of parallel sides.
 - Ⓓ Only some rhombuses are parallelograms. Parallelograms have exactly 1 pair of parallel sides. Therefore, only some rhombuses have exactly 1 pair of parallel sides.

Use the information provided to answer Part A and Part B for question 8.

This table shows the three different ways that toy animals are packaged at a factory.

Package Type	Amount in the Package
Bag	36 toy animals
Box	48 bags
Crate	18 boxes



8. Part A

What is the total number of toy animals in one crate?

Enter your answer in the box.

●	●	●	●	●	●
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Part B

One bag of toy animals weighs 12 ounces. What is the total weight, in ounces, of the bags of toy animals in one crate?

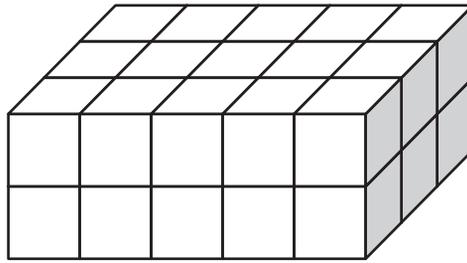
Enter your answer in the box.

⊙	⊙	⊙	⊙	⊙	⊙
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

9. Isabel lives $\frac{3}{4}$ mile from school. Janet lives $\frac{2}{3}$ mile from school. How much farther, in miles, does Isabel live from school than Janet?

- (A) $\frac{1}{4}$
- (B) $\frac{1}{3}$
- (C) $\frac{1}{7}$
- (D) $\frac{1}{12}$

10. The rectangular prism shown is made from cubes. Each cube is 1 cubic unit.



What is the volume, in cubic units, of the rectangular prism?

Enter your answer in the box.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

11. Enter your answer in the box.

$$463 \times 1,945 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

12. Solve.

$$\frac{3}{4} + \frac{4}{5} - \frac{7}{10} =$$

Ⓐ $\frac{7}{20}$

Ⓑ $\frac{14}{20}$

Ⓒ $\frac{17}{20}$

Ⓓ $\frac{21}{20}$

13. Which figure is always a rectangle?

Ⓐ square

Ⓑ rhombus

Ⓒ quadrilateral

Ⓓ parallelogram

14. Enter your answer in the box.

$$0.35 \times 1.5 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

15. Part A

Enter your answer in the box.

$$6.3 \times 0.1 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Part B

Enter your answer in the box.

$$6.3 \div 0.1 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Use the information provided to answer Part A and Part B for question 16.

A community center has three swimming pools. The water level of each pool is measured at 8:00 p.m. each night. Two of the measurements from Saturday night are shown.

- The water level in the first pool is $3\frac{5}{12}$ feet deep.
- The water level in the second pool is $4\frac{3}{8}$ feet deep.

16. Part A

What is the difference in depth, in feet, between the water levels of the second pool and the first pool?

- Ⓐ $1\frac{1}{4}$
- Ⓑ $1\frac{1}{6}$
- Ⓒ $\frac{11}{12}$
- Ⓓ $\frac{23}{24}$

Part B

The water level in the third pool is $2\frac{3}{4}$ feet deeper than the second pool.

What is the total depth, in feet, of the water level in the third pool?

- Ⓐ $6\frac{3}{8}$
- Ⓑ $6\frac{1}{2}$
- Ⓒ $7\frac{1}{8}$
- Ⓓ $7\frac{3}{4}$

17. Emma has a board that is 5 feet long. She cuts the board into 6 equal pieces.

Which equation shows how to find the length, in feet, of each piece of the board?

Ⓐ $5 \times 6 = 30$

Ⓑ $6 - 5 = 1$

Ⓒ $6 \div 5 = 1\frac{1}{5}$

Ⓓ $5 \div 6 = \frac{5}{6}$

18. Which statement correctly compares two values?

Ⓐ The value of the 6 in 26.495 is $\frac{1}{10}$ the value of the 6 in 17.64.

Ⓑ The value of the 6 in 26.495 is 10 times the value of the 6 in 17.64.

Ⓒ The value of the 6 in 26.495 is $\frac{1}{100}$ the value of the 6 in 17.64.

Ⓓ The value of the 6 in 26.495 is 100 times the value of the 6 in 17.64.

19. Jen makes a rectangular banner. It is $\frac{3}{4}$ yard long and $\frac{1}{4}$ yard wide. What is the area, in square yards, of the banner?

- Ⓐ $\frac{3}{16}$
- Ⓑ $\frac{3}{8}$
- Ⓒ 1
- Ⓓ 3

20. A cereal box has a height of 32 centimeters. It has a base with an area of 160 square centimeters.

What is the volume, in cubic centimeters, of the cereal box?

Enter your answer in the box.

⊙	⊙	⊙	⊙	⊙	⊙
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Use the information provided to answer Part A and Part B for question 21.

Ammaar put $\frac{4}{7}$ of the money he earned in the bank. He spent $\frac{1}{3}$ of the money on a book.

21. Part A

Which expression can be used to find the difference between the fraction of money Ammaar put in the bank and the fraction of money he spent on the book?

(A) $\frac{4}{10} - \frac{1}{10}$

(B) $\frac{8}{10} - \frac{7}{10}$

(C) $\frac{4}{21} - \frac{1}{21}$

(D) $\frac{12}{21} - \frac{7}{21}$

Part B

What is the difference between the fraction of money Ammaar put in the bank and the fraction of money he spent on the book?

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

(B) $\frac{1}{7}$

(C) $\frac{3}{10}$

(D) $\frac{5}{21}$

22. Enter your answer in the box.

$$5.63 + 14.37 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

23. Kurt drew a rectangular maze with a length of $\frac{3}{4}$ foot and a width of $\frac{5}{12}$ foot. What is the area, in square feet, of Kurt's maze?

- (A) $\frac{15}{48}$
- (B) $\frac{8}{16}$
- (C) $\frac{20}{36}$
- (D) $\frac{15}{16}$

24. Which expression matches the statement, “the sum of 2 and 4 subtracted from 9”?

- Ⓐ $2 + 9 - 4$
- Ⓑ $9 - 2 + 4$
- Ⓒ $9 - (2 + 4)$
- Ⓓ $(2 + 4) - 9$

25. Solve.

$$\frac{5}{6} \times \frac{9}{10} =$$

- Ⓐ $\frac{14}{16}$
- Ⓑ $\frac{15}{30}$
- Ⓒ $\frac{45}{60}$
- Ⓓ $\frac{50}{54}$

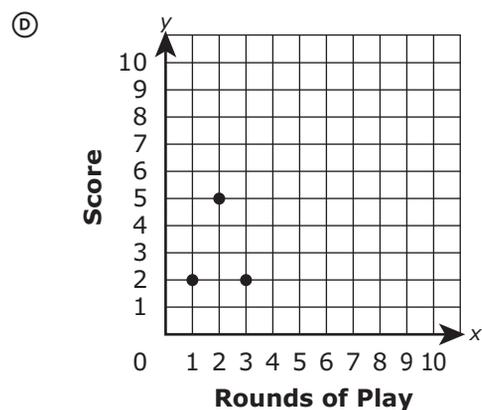
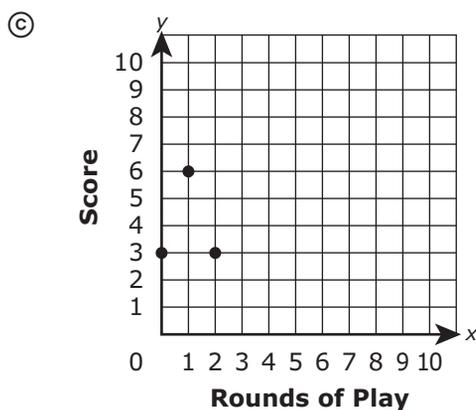
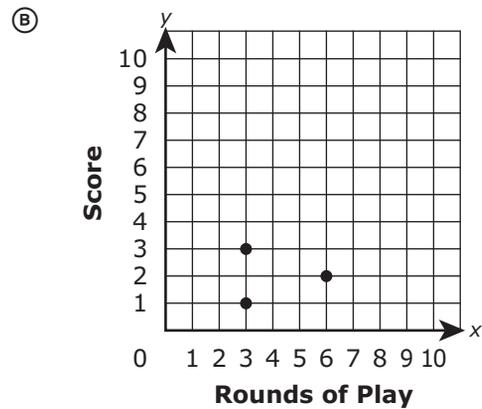
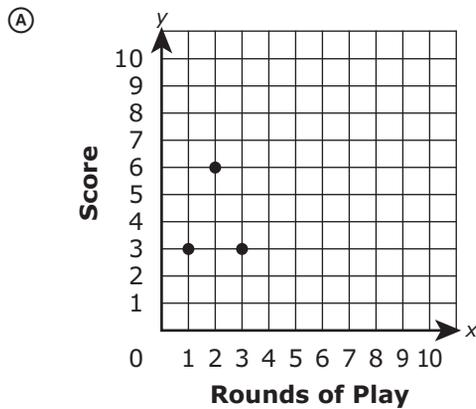
Use the information provided to answer Part A and Part B for question 26.

Mia is playing several rounds of a word game. Each coordinate pair shows the number of a round and Mia’s score for that round. She is keeping track of these coordinate pairs on a coordinate plane.

- Round 1: (1, 3)
- Round 2: (2, 6)
- Round 3: (3, 3)

26. Part A

Which coordinate plane correctly shows Mia’s scores for the first three rounds of play?



Part B

In round 4, Mia scores the same number of points as in rounds 2 and 3 combined.

What is the coordinate pair that represents Mia's score for round 4?

- (A) (4, 5)
- (B) (9, 4)
- (C) (5, 4)
- (D) (4, 9)

27. Enter your answer in the box.

$$1,534 \div 26 =$$

●	●	●	●	●	●
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

28. Which **two** conversions are correct?

- (A) 7 mm = 70 cm
- (B) 7 cm = 0.07 m
- (C) 7,000 m = 7 km
- (D) 0.7 cm = 70 mm
- (E) 7 m = 7,000 km

29. Select the **two** correct statements.

- (A) The product of $\frac{3}{5}$ and 4 is greater than 4.
- (B) The product of $\frac{3}{5}$ and 4 is less than $\frac{3}{5}$.
- (C) The product of $1\frac{1}{2}$ and 2 is greater than $1\frac{1}{2}$.
- (D) The product of $1\frac{1}{2}$ and 2 is less than 2.
- (E) The product of $\frac{13}{4}$ and $\frac{5}{2}$ is greater than $\frac{13}{4}$.
- (F) The product of $\frac{13}{4}$ and $\frac{5}{2}$ is less than $\frac{5}{2}$.

30. Mr. Edwards is making sandwiches. He has 4 pounds of cheese. He puts $\frac{1}{8}$ pound of cheese in each sandwich.

What is the total number of sandwiches Mr. Edwards makes using all 4 pounds of cheese?

Enter your answer in the box.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Use the information provided to answer Part A and Part B for question 31.

There are two tanks at the aquarium, Tank A and Tank B. Each tank has two sections.

31. Part A

The volume of one section of Tank A is 24 cubic feet. The volume of the other section of Tank A is 96 cubic feet.

What is the total volume, in cubic feet, of Tank A?

- Ⓐ 4
- Ⓑ 72
- Ⓒ 120
- Ⓓ 2,304

Part B

Tank B has the same volume as Tank A.

The volume of one section of Tank B is 45 cubic feet. What is the volume, in cubic feet, of the other section of Tank B?

Enter your answer in the box.

⓪	⓪	⓪	⓪	⓪	⓪
①	①	①	①	①	①
②	②	②	②	②	②
③	③	③	③	③	③
④	④	④	④	④	④
⑤	⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨	⑨

32. Select the **three** statements that correctly describe the coordinate system.

- Ⓐ The x - and y -axes intersect at 10.
- Ⓑ The x - and y -axes intersect at the origin.
- Ⓒ The x - and y -axes are parallel number lines.
- Ⓓ The x - and y -axes are perpendicular number lines.
- Ⓔ The x - and y -coordinates are used to locate points on a coordinate plane.

33. Which statement about the corresponding terms in both Pattern A and Pattern B is always true?

Pattern A: 0, 5, 10, 15, 20, 25, 30

Pattern B: 0, 10, 20, 30, 40, 50, 60

- Ⓐ Each term in Pattern A is 2 times the corresponding term in Pattern B.
- Ⓑ Each term in Pattern A is $\frac{1}{2}$ times the corresponding term in Pattern B.
- Ⓒ Each term in Pattern A is 5 less than the corresponding term in Pattern B.
- Ⓓ Each term in Pattern A is 10 less than the corresponding term in Pattern B.

34. Part A

A company sells phones for \$515.00 each.

What is the total amount of money, in dollars, the company earns from selling 856 phones?

Enter your answer in the box.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Part B

The parts to build these phones cost \$189.00 for each phone.

What is the total cost, in dollars, of parts to build 856 phones?

Enter your answer in the box.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

35. Enter your answer in the box.

$$371 \times 2,584 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

36. Enter your answer in the box.

$$625 \times 847 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9





You have come to the end of the test.

- **Review your answers.**
- **Then, close your test booklet and raise your hand to turn in your test materials.**



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