

# Mississippi MAAP 2023 Grade 5 Math Practice

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## **Grade 5 Mathematics**

### ***Sample Test Items***

**1.** Which expression is equivalent to 15?

Ⓐ  $6 \times 9$

Ⓑ  $2 \times (6 + 3)$

Ⓒ  $7 + (32 \div 4)$

Ⓓ  $(4 + 2 \times 3) - 3$

- 2.** Select the box in each row that matches the written form to its expression.

	$(12 - 10) + 2$	$12 \times (2 + 10)$	$12 \times 2 - 10$
Multiply 12 and 2, then subtract 10.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtract 12 and 10, then add 2.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Add 2 and 10, then multiply by 12.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**3.** Mr. Wells wrote two patterns on the board.

- Pattern A: The first term has a value of 3, and the next terms increase by 3 each time.
- Pattern B: The first term has a value of 27, and the next terms decrease by 3 each time.

What is the value of the first term that both Pattern A and Pattern B have in common?

Write the answer in the box.

4. Which statement correctly compares the digit 5 in the numbers 89.059 and 78.365?

Ⓐ The 5 in 89.059 is  $\frac{1}{100}$  the value of the 5 in 78.365.

Ⓑ The 5 in 89.059 is  $\frac{1}{10}$  the value of the 5 in 78.365.

Ⓒ The 5 in 89.059 is 10 times the value of the 5 in 78.365.

Ⓓ The 5 in 89.059 is 100 times the value of the 5 in 78.365.

**5.** What is the product of  $3.7 \times 10^4$ ?

Ⓐ 370

Ⓑ 3,700

Ⓒ 37,000

Ⓓ 370,000

**6.** What is 1.453 rounded to the nearest hundredth?

Ⓐ 1.4

Ⓑ 1.45

Ⓒ 1.46

Ⓓ 1.5



**7.** What is the product of  $271 \times 1,345$ ?

Ⓐ 13,450

Ⓑ 37,660

Ⓒ 232,195

Ⓓ 364,495

8. Jose, Darren, Diana, and Camila solved the problem  $1,050 \div 25$ . Their work is shown.

**Jose's Work**

$$\begin{array}{r} 50 \quad 2 \\ 25 \overline{) 1,000 \quad 50} \end{array}$$

**Darren's Work**

$$\begin{array}{r} 4 \quad 2 \\ 20 \overline{) 80 \quad 40} \\ 50 \overline{) 20 \quad 20} \end{array}$$

**Diana's Work**

$$\begin{array}{r} 25 \overline{) 1,050} \\ \underline{500} \phantom{00} \\ 550 \phantom{00} \\ \underline{500} \phantom{00} \\ 50 \phantom{00} \\ \underline{50} \phantom{00} \\ 0 \end{array} \begin{array}{l} 20 \\ 20 \\ 2 \end{array}$$

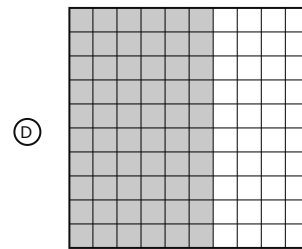
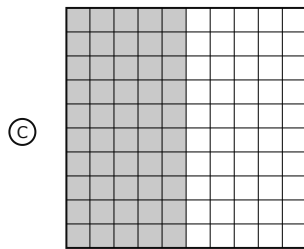
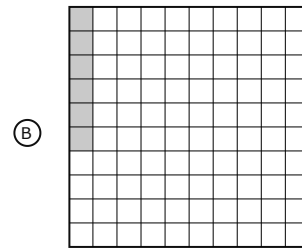
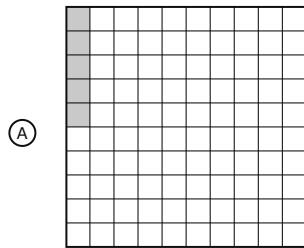
**Camila's Work**

$$\begin{array}{r} 25 \overline{) 1,050} \\ \underline{-1,000} \phantom{00} \\ 50 \phantom{00} \\ \underline{-50} \phantom{00} \\ 0 \end{array} \begin{array}{l} 5 \\ 2 \end{array}$$

Which person correctly solved the problem?

- Ⓐ Jose
- Ⓑ Darren
- Ⓒ Diana
- Ⓓ Camila

9. Which model represents the product of  $0.2 \times 0.3$ ?



- 10.** Shelley had a 6-foot-long rope. She cut  $2\frac{5}{12}$  feet from the rope. How much rope does she have left?

Ⓐ  $3\frac{5}{12}$  ft.

Ⓑ  $3\frac{7}{12}$  ft.

Ⓒ  $4\frac{5}{12}$  ft.

Ⓓ  $4\frac{7}{12}$  ft.

- 11.** Jamie and four friends share 2 quarts of apple cider equally. Which equation represents the amount of cider that each person receives?

Ⓐ  $2 \div 5 = \frac{2}{5}$

Ⓑ  $2 \div 4 = \frac{1}{2}$

Ⓒ  $4 \div 2 = 2$

Ⓓ  $5 \div 2 = 2\frac{1}{2}$

12. Which expressions are equivalent to  $\frac{3}{4} \times 8$ ?

Select **two** answer choices.

Ⓐ  $\frac{24}{32}$

Ⓑ  $\frac{24}{4}$

Ⓒ  $(3 \times 8) \div 4$

Ⓓ  $(3 \times 8) + (4 \times 8)$

Ⓔ  $(3 \times 8) \div (4 \times 8)$

- 13.** Sam has  $\frac{1}{2}$  acre for a garden. If  $\frac{1}{3}$  of the garden is used for corn, what fraction of an acre is planted with corn?

Ⓐ  $\frac{1}{6}$

Ⓑ  $\frac{2}{6}$

Ⓒ  $\frac{3}{6}$

Ⓓ  $\frac{4}{6}$



- 14.** The following question has two parts. First, answer Part A. Then, answer Part B.

An aquarium has a table displaying the average total length, in meters, of four whales.

Whale	Length (m)
Blue Whale	24
North Pacific Right Whale	15.5
Southern Right Whale	15.25
Fin Whale	19.5

**Part A**

What is the difference, in centimeters, between the whale with the longest length and the whale with the shortest length?

Write the answer in the box.

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 centimeters

**Part B**

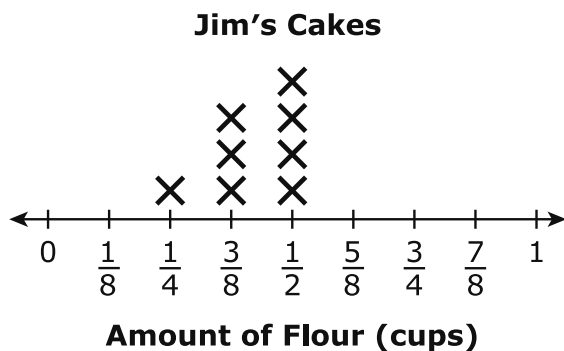
What is the total length, in centimeters, of the four whales?

Write the answer in the box.

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 centimeters

15. Jim owns a bakery. The line plot shows the amount of flour he uses to make 8 different cakes.

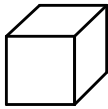
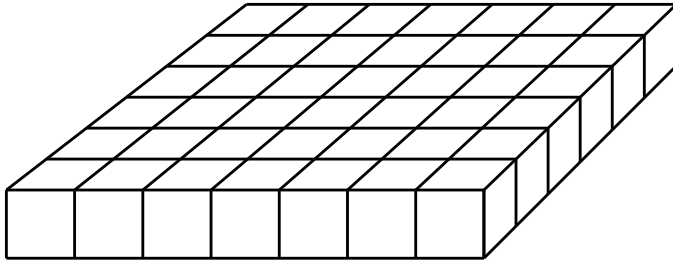


Jim has 2 cups of flour. How much more flour does Jim need to make all 8 cakes?

- Ⓐ  $1\frac{3}{8}$  cups
- Ⓑ  $3\frac{3}{8}$  cups
- Ⓒ  $5\frac{3}{8}$  cups
- Ⓓ  $9\frac{3}{8}$  cups

- 16.** A rectangular prism is packed without gaps or overlaps using 25 unit cubes. What is the volume of the rectangular prism?
- Ⓐ 25 cubic units
  - Ⓑ 75 cubic units
  - Ⓒ 150 cubic units
  - Ⓓ 625 cubic units

- 17.** Rowan filled a gift box with unit cubes. He filled the bottom of the box with 7 unit cubes without any gaps. He stacked cubes in 6 layers total. Then he laid the box on its side.

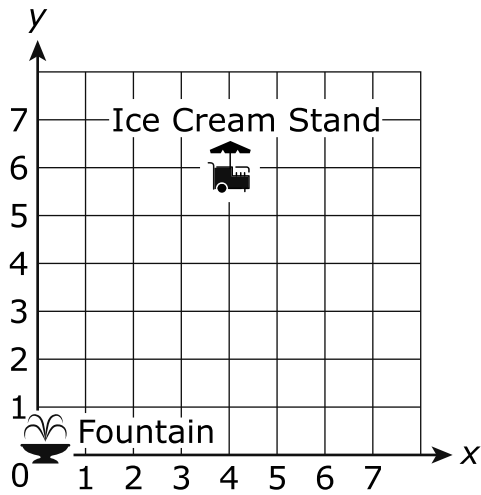


= 1 cubic unit

What is the volume of the box?

- Ⓐ 14 cubic units
- Ⓑ 24 cubic units
- Ⓒ 36 cubic units
- Ⓓ 42 cubic units

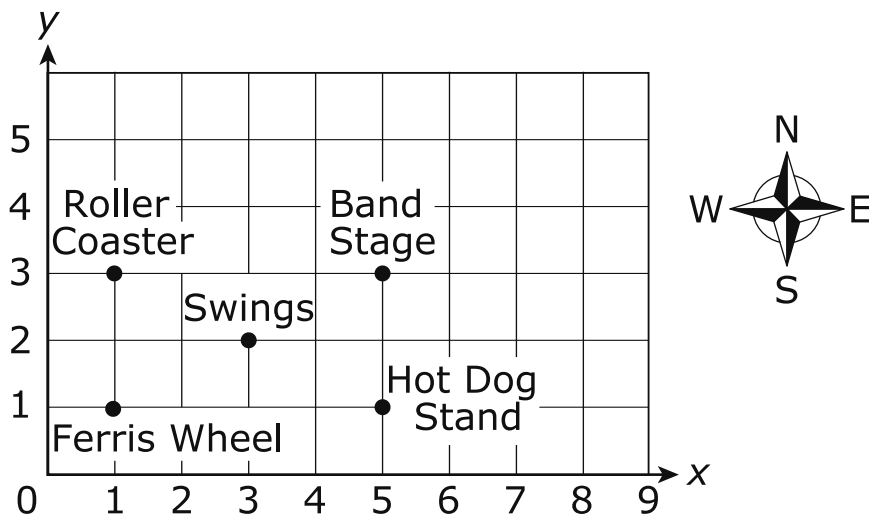
18. The mall manager has added an ice cream stand near the fountain.



Which statement describes the distance traveled from the fountain to the ice cream stand?

- Ⓐ 4 units to the left and 6 units down
- Ⓑ 4 units to the right and 6 units up
- Ⓒ 5 units to the right and 7 units up
- Ⓓ 6 units to the left and 4 units up

19. A map of an amusement park is shown.



Ben is located at the swings. He leaves the swings and travels 2 blocks west and 1 block south. What is Ben's new location?

- Ⓐ Band Stage
- Ⓑ Ferris Wheel
- Ⓒ Roller Coaster
- Ⓓ Hot Dog Stand

**20.** A student says that a square is always a rectangle. Is the student correct?

- Ⓐ No, because a square has 4 equal sides.
- Ⓑ No, because a square only has 1 set of parallel sides.
- Ⓒ Yes, because a square has 4 right angles and 2 sets of parallel sides.
- Ⓓ Yes, because a square has 2 obtuse angles and 1 set of parallel sides.

**Grade 5 Math Sample Test Items**  
**Paper-Pencil Answer Key Document**

<b>Sequence</b>	<b>Key</b>	<b>Standard</b>	<b>Possible Points</b>
1	C	5.OA.1	1
2	3,4,8	5.OA.2	1
3	15	5.OA.3	1
4	C	5.NBT.1	1
5	C	5.NBT.2	1
6	B	5.NBT.4	1
7	D	5.NBT.5	1
8	C	5.NBT.6	1
9	B	5.NBT.7	1
10	B	5.NF.1	1
11	A	5.NF.3	1
12	B,C	5.NF.4	1
13	A	5.NF.6	1
14	875, 7,425	5.MD.1	2
15	A	5.MD.2	1
16	A	5.MD.3	1
17	D	5.MD.5	1
18	B	5.G.1	1
19	B	5.G.2	1
20	C	5.G.3	1