

CTB/McGraw-Hill

Math Grade 6 Baseline Assessment

Test ID: 87370

Go to the Next Page

Test Directions

General Offline Instructions:
Today you will take the Acuity Assessment. Read each question carefully and decide which answer is correct. Using your scan sheet, fill in the bubble that contains the letter for the answer you choose.

Go to the Next Page

Section 1

Go to the Next Page

1. A wildlife preserve raised \$1,664 at a fundraiser. All of the funds will be equally shared among 8 exhibits at the preserve. How much money will each exhibit receive?
 - A \$28
 - B \$208
 - C \$268
 - D \$1,268

2. A total of 2,365 ounces of pet food have to be packed in 24-ounce bags. What is the greatest number of bags that can be packed, and how many ounces of pet food are left over?
 - A 90 bags with 5 ounces of pet food left over
 - B 94 bags with 9 ounces of pet food left over
 - C 98 bags with 3 ounces of pet food left over
 - D 98 bags with 13 ounces of pet food left over

3. Divide 56.73 by 0.61.
 - A 0.93
 - B 9.3
 - C 93
 - D 930

4. The regular price of a bike sold at a store is \$123.95. The store reduced the price of the bike by \$24.78 during a sale. The store also carried a helmet that had a regular price of \$37.75. The price of the helmet was reduced by \$7.17 for the sale. What was the total price of the bike and helmet during the sale?
 - A \$129.75
 - B \$131.81
 - C \$161.70
 - D \$193.65

Go to the Next Page

5. Look at this expression.

$$2.05 \times 0.7$$

What is the value of the expression?

- A** 1.435
- B** 1.705
- C** 14.35
- D** 17.05

6. Look at this expression.

$$\frac{2}{3} + \frac{7}{4} + \frac{3}{4}$$

Which equation shows how to find the value of the expression?

A $\frac{2+7+3}{3+4+4} = \frac{12}{11}$

B $\frac{8}{12} + \frac{21}{12} + \frac{9}{12} = \frac{38}{36}$

C $\frac{8}{12} + \frac{21}{12} + \frac{9}{12} = \frac{38}{12}$

D $\frac{6}{12} + \frac{28}{12} + \frac{12}{12} = \frac{46}{36}$

Go to the Next Page

7. Each day, Jose spends $\frac{2}{3}$ of an hour playing the piano and $\frac{1}{4}$ of an hour practicing music theory. What is the total fraction of an hour that Jose spends playing the piano and practicing music theory each day?

A $\frac{1}{6}$

B $\frac{5}{12}$

C $\frac{3}{7}$

D $\frac{11}{12}$

8. Annie has two equal-sized amounts of wax in two different colors. She used $\frac{5}{8}$ of the green wax and $\frac{1}{3}$ of the blue wax to make some candles. What fraction shows the total amount of wax left?

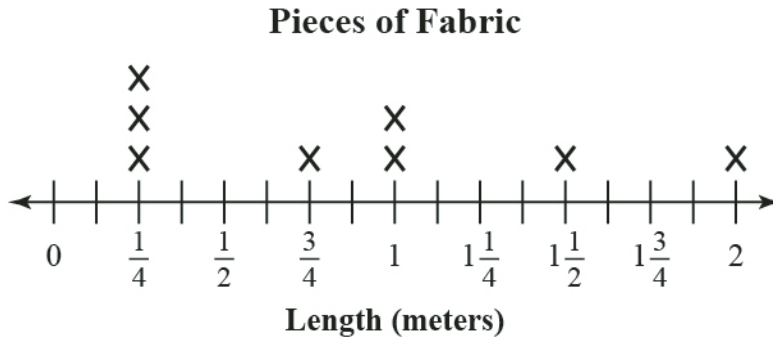
A $\frac{6}{11}$

B $\frac{23}{24}$

C $1\frac{1}{24}$

D $1\frac{5}{11}$

9. This line plot shows the lengths, in meters, of pieces of cotton and silk fabric Dona is using for a sewing project.



The total length of the pieces of cotton fabric is $4\frac{1}{2}$ meters. What is the total length, in meters, of the pieces of silk fabric?

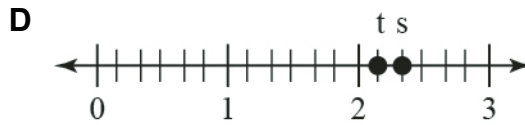
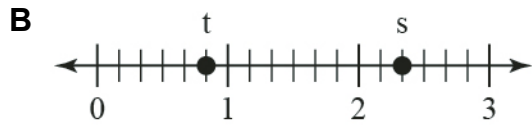
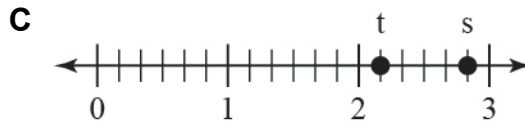
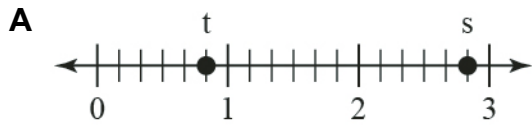
- A 2
- B $2\frac{1}{2}$
- C 3
- D $3\frac{1}{2}$

10. Look at these equations.

$$s = 2\frac{1}{3} + \frac{1}{2}$$

$$t = \frac{2}{3} + \frac{3}{2}$$

Which number line shows the solutions?



Go to the Next Page

Section 2

Go to the Next Page

11. Which expression will result in the answer 40?

- A $8 + (2 \times 4)$
- B $8 \times (7 - 2)$
- C $10 + 0 \times 4$
- D $10 \times 6 - 2$

12. Look at these two expressions.

Expression A: $8 \div 4 - 2$

Expression B: $8 \div (4 - 2)$

Which statement about the two expressions is true?

- A The value of each expression is 0.
- B The value of each expression is 4.
- C The value of Expression A is 0 and the value of Expression B is 4.
- D The value of Expression A is 4 and the value of Expression B is 0.

13. Read these instructions.

Add 5 to 98 and multiply the sum by 31.

Which expression represents the instructions?

- A $98 + 5 \times 31$
- B $(98 + 5 \times 31)$
- C $(98 + 5) \times 31$
- D $98 + (5 \times 31)$

14. Tia picked 56 ounces of blueberries. She used 8 ounces to make muffins and packed the remaining blueberries into 12-ounce packages. Which expression can be used to find the greatest number of packages of blueberries that Tia packed?

- A $56 - 8 - 12$
- B $56 - 8 \div 12$
- C $56 - (8 + 12)$
- D $(56 - 8) \div 12$

Go to the Next Page

15. Daniel created two different number patterns, Pattern A and Pattern B, using the two different rules shown.

Rule for Pattern A: Start with 12, add 4

Rule for Pattern B: Start with 10, add 6

Which table shows the first five terms in both the number patterns?

A

Pattern A	Pattern B
12	10
16	14
20	18
24	22
28	26

C

Pattern A	Pattern B
12	10
16	16
20	22
24	28
28	34

B

Pattern A	Pattern B
12	10
18	14
24	18
30	22
36	26

D

Pattern A	Pattern B
12	10
18	16
24	22
30	28
36	34

Go to the Next Page

16. Jamal and Sean plan to make T-shirts to sell at a fair. Jamal plans to make 6 T-shirts each day and Sean plans to make 4 T-shirts each day. On which day will Jamal have made 12 more T-shirts than Sean?

- A Day 2
- B Day 3
- C Day 6
- D Day 8

17. A block of wood is in the shape of a rectangular prism. The base of the block is in the shape of a square. The dimensions of the block of wood are shown.

length of one side of the square base = 6 inches
height of the block = 9 inches

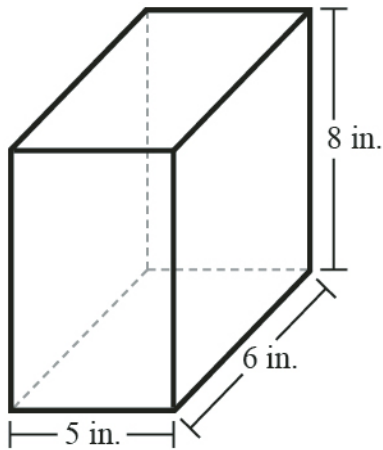
What is the volume, in cubic inches, of the block of wood?

$V = b \times h$ $V = \text{volume}$ $b = \text{area of the base}$ $h = \text{height}$

- A 54
- B 274
- C 324
- D 486

Go to the Next Page

18. Look at this rectangular prism.



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

$$V = l \times w \times h$$

- A 19
- B 240
- C 288
- D 568

Section 3

Go to the Next Page

19. Which of these can the mixed number $1\frac{1}{3}$ represent?
- A $1 \div 3$
 - B $3 \div 4$
 - C $4 \div 3$
 - D $3 \div 1$
20. Kevin bought a piece of cloth measuring 5 square feet to make flags for a sporting event. He cut it into 8 small pieces of the same size. What is the size, in square feet, of each small piece of cloth Kevin cut?
- A $\frac{3}{5}$
 - B $\frac{5}{8}$
 - C $\frac{8}{5}$
 - D $\frac{5}{3}$
21. Bryce drinks $\frac{3}{4}$ pint of milk every day. How many pints of milk does Bryce drink in 7 days?
- A $\frac{3}{28}$
 - B $\frac{4}{21}$
 - C $\frac{21}{4}$
 - D $\frac{28}{3}$

Go to the Next Page

22. Thomas wants to make $\frac{2}{3}$ of a batch of cookies that take $\frac{7}{8}$ of a cup of flour per batch to make.

How much flour will he need?

A $\frac{5}{24}$ cup

B $\frac{7}{12}$ cup

C $\frac{16}{21}$ cup

D $\frac{9}{11}$ cup

23. Jason has $\frac{1}{6}$ yard of craft wire for a jewelry project. He cuts the craft wire into 4 pieces of the same length.

What is the length, in yards, of each piece of craft wire Jason cut?

A $\frac{1}{64}$

B $\frac{1}{24}$

C $\frac{2}{3}$

D $\frac{3}{2}$

Go to the Next Page

24. Ms. Sanchez bought 3 pounds of turkey to make sandwiches for her family. She uses $\frac{1}{3}$ of a pound for each sandwich. How many sandwiches can she make?
- A 1
 - B $1\frac{1}{3}$
 - C 6
 - D 9
25. Which of these **best** describes the product of $\frac{3}{7}$ and $\frac{5}{2}$?
- A It is less than $\frac{3}{7}$.
 - B It is greater than $\frac{5}{2}$.
 - C It is between $\frac{3}{7}$ and $\frac{5}{4}$.
 - D It is between $\frac{5}{4}$ and $\frac{5}{2}$.

26. Salma had $1\frac{7}{8}$ cups of lemon juice. She used $\frac{2}{3}$ of it to make a cake frosting.

Which of these is the **best** estimate of the amount of lemon juice that Salma used to make the frosting?

- A more than $\frac{2}{3}$ cup but less than 1 cup
- B more than $\frac{1}{3}$ cup but less than $\frac{2}{3}$ cup
- C more than 1 cup but less than $1\frac{3}{4}$ cups
- D more than $1\frac{3}{4}$ cups but less than $1\frac{7}{8}$ cups

27. Look at this expression.

$$\frac{4}{3} \times \square$$

Which number can go in the box to make the value of the expression greater than $\frac{4}{3}$ and why?

- A $3\frac{5}{8}$, because the number is greater than 1
- B $\frac{5}{8}$, because the numerator is greater than the numerator in $\frac{4}{3}$
- C $\frac{5}{8}$, because the fraction has a numerator that is greater than 1
- D $3\frac{5}{8}$, because the number has a denominator greater than the denominator in $\frac{4}{3}$

Go to the Next Page

28. Look at this expression.

$$\frac{5}{6} \times 4\frac{2}{3}$$

Arun said that the value of the expression is greater than $\frac{5}{6}$. Is Arun correct and why?

- A** no, because $\frac{5}{6}$ is less than 1
- B** no, because $\frac{2}{3}$ is less than $\frac{5}{6}$
- C** yes, because $4\frac{2}{3}$ is greater than 1
- D** yes, because $4\frac{2}{3}$ is greater than $\frac{5}{6}$

29. A classroom collected $9\frac{3}{4}$ dollars for a penny drive. The children want to give $\frac{2}{3}$ of the money to a special charity. How much money, in dollars, will they give to the charity?

- A** $3\frac{5}{12}$
- B** $5\frac{6}{7}$
- C** $6\frac{1}{2}$
- D** $11\frac{1}{7}$

30. In the sixth grade class, $\frac{3}{7}$ of the students are boys, and $\frac{5}{8}$ of the boys are in Ms. Jones' English class. The equation, $\frac{5}{8} \times \frac{3}{7} = \square$, can be used to find the fraction of the sixth grade class that are boys in Ms. Jones' English class. What fraction of the sixth grade class are boys in Ms. Jones' English class?

A $\frac{1}{7}$

B $\frac{15}{56}$

C $\frac{8}{15}$

D $\frac{24}{35}$

This is the end of the test.

