

Ohio Achievement Tests – 4th Grade Math

Number, Number Sense and Operations

1. Ruth's garden has 6 rows of strawberry plants. There are 20 strawberry plants in each row.

How many strawberry plants are in Ruth's garden?

- A. 12
- B. 26
- C. 80
- D. 120

2. One month Tony's puppy grew $\frac{7}{8}$ of an inch. The next month his puppy grew $\frac{5}{8}$ of an inch.

How many inches did Tony's puppy grow in two months?

- A. $\frac{2}{8}$
- B. $\frac{35}{64}$
- C. $\frac{12}{16}$
- D. $\frac{12}{8}$

3. Which is the same as 480,072?

- A. $400 + 80 + 70 + 2$
- B. $4,000 + 80 + 700 + 2$
- C. $40,000 + 80,000 + 70 + 2$
- D. $400,000 + 80,000 + 70 + 2$

4. Some fractions are less than one. Some fractions are equal to one. Some fractions are greater than one.

Write a fraction that is equal to one. _____

Use words, pictures or numbers to show or explain why your fraction is equal to one.

5. The distance between three towns is shown.



Estimate the distance from Kellogg to Fairfield.

- A. 500 miles
 - B. 600 miles
 - C. 700 miles
 - D. 800 miles
6. Which is a prime number between 20 and 30?
- A. 21
 - B. 23
 - C. 25
 - D. 27

7. A store sells rice in 3-pound and 5-pound bags. Jennie is responsible for packing 60 pounds of rice into the 3-pound bags, 5-pound bags or a combination of 3-pound and 5-pound bags. She needs to pack all 60 pounds of rice.

The prices for the bags of rice are shown in the chart.

Bags of Rice

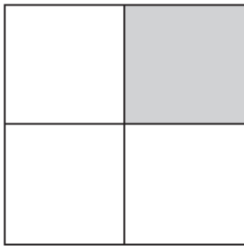
Weight	Price
3 pounds	\$4 a bag
5 pounds	\$6 a bag

Show three ways Jennie can pack the 60 pounds of rice into bags. For each way, show the total number of bags for each weight she will have packed. Show or explain your answer by using pictures, words or numbers.

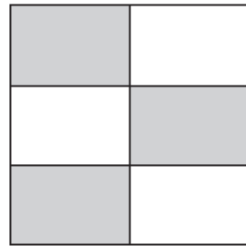
Question continued on the next page.

Show which of your three ways will make the most money when all the bags Jennie packs are sold. Explain your answer by using pictures, words or numbers.

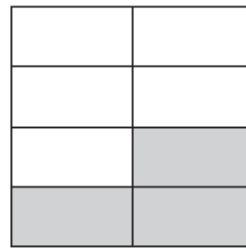
8. Four students shaded rectangles to represent different fractions.



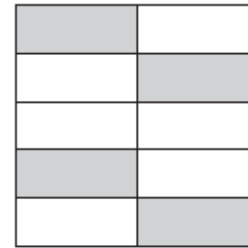
Fred $\frac{1}{4}$



Rob $\frac{3}{6}$



Mary $\frac{3}{8}$



Wanda $\frac{4}{10}$

Which fraction is greatest?

- A. $\frac{1}{4}$
- B. $\frac{3}{6}$
- C. $\frac{3}{8}$
- D. $\frac{4}{10}$

9. Gavin bought a puzzle that costs \$6.35. He gave the clerk a \$10 bill.

How much change should Gavin receive? _____

Give an example of the bills and coins Gavin could receive for change. Use numbers, pictures or words to show your work.

10. The elevation of Campbell Hill is 1,565 feet.

What is this number rounded to the nearest hundred?

- A. 1,500 feet
- B. 1,550 feet
- C. 1,600 feet
- D. 2,000 feet

11. Camille buys a pair of shoes for \$15.95. She gives the clerk \$20.00.

How much change should Camille receive?

- A. \$4.00
- B. \$4.05
- C. \$4.15
- D. \$5.05

12. Shiloh has 823 pennies. Lester has 988 pennies.

How many pennies do Shiloh and Lester have together?

- A. 1,701
- B. 1,711
- C. 1,801
- D. 1,811

13. Kimberly has \$2.31 in one pocket and \$1.94 in another.

How much money does Kimberly have in both pockets?

- A. \$0.37
- B. \$1.37
- C. \$3.25
- D. \$4.25

14. Four girls ran in a race. Their times are shown in the table.

Runner	Time (seconds)
June	12.03
Beth	12.3
Meg	12.033
Sarah	12.303

Which list shows the students' times from least time to greatest time?

- A. 12.033; 12.03; 12.3; 12.303
 - B. 12.03; 12.033; 12.3; 12.303
 - C. 12.03; 12.033; 12.303; 12.3
 - D. 12.3; 12.03; 12.033; 12.303
15. Heidi and James each have a bottle of juice that is the same size. Heidi drank $\frac{1}{4}$ of her juice. James drank $\frac{1}{3}$ of his juice.

Who drank more juice? _____

Use pictures, words or numbers to show how you know.

16.

What is a prime number?

Give three examples of prime numbers.

17. Stamps are sold in rolls of 100 and books of 20. Zoe bought two rolls and eight books of stamps.

What is the total number of stamps Zoe bought?

- A. 240
- B. 360
- C. 960
- D. 1,200

18. Aaron saved \$60 to buy airplane models for his collection. The cost of each model with tax included is \$7.

How many models can he buy?

- A. 4
- B. 8
- C. 9
- D. 12

19. Eight students are shown.



Write a fraction and a decimal that represents the number of students wearing hats.

20. The numbers of students in four classes are shown in the table.

Class	Number of Students
Mr. Willard	19
Ms. Smith	23
Ms. Rose	27
Mr. Hiller	29

Which class can be divided into equal-sized groups that contain more than one student?

- A. Mr. Willard's class
 - B. Ms. Smith's class
 - C. Ms. Rose's class
 - D. Mr. Hiller's class
21. Erik walked Mrs. Johnson's dog each day for six days. He earned \$1.25 each day.

How much money did Erik earn?

- A. \$4.75
- B. \$6.25
- C. \$7.25
- D. \$7.50

22. There are about 525,600 minutes in a year.

What is this number rounded to the nearest thousand?

- A. 500,000
- B. 525,000
- C. 526,000
- D. 530,000

23. Calvin gathered data on the number of people who live in five cities.

City	Number of People
St. James	109,026
Olivia	20,055
Franklin	111,402
Palmer	19,986
Trinity	109,000

Which city has more people than St. James?

- A. Olivia
 - B. Franklin
 - C. Palmer
 - D. Trinity
24. There were 1,479 people at the movie theater on Saturday and 1,753 people on Sunday.

How many people went to the movie theater on Saturday and Sunday?

- A. 2,232
- B. 3,132
- C. 3,222
- D. 3,232