Directions: Directions: On a separate sheet of lined paper, neatly answer the questions below in complete sentences. You will be graded on neatness and quality of the answers.

- 1. Who was famous for his feats of strength?
- 2. Who had 200 heads and was as tall as the clouds?
- 3. Who could turn men into stone?
- 4. Who was the goddess of love and beauty?
- 5. Who was the god of the sun?
- 6. Who was Persephone?
- 7. Who were the Cyclopes?
- 8. Who were the Nymphs?
- 9. Who had an upper body of a human and the lower body of a horse?

Choose any four of the Greek Heroes and summarize the following for each:

- a. What is the god/goddess known for?
- b. Describe an important event that took place.
- c. What was the climax of their adventure?
- 10. What does it mean to be mortal? List three characters who were mortal.
- 11. What does it mean to be immortal? List three characters who were immortal.
- 12. What is Mount Olympus?
- 13. Why do you think the Greek myths and legends were first told? Explain.

14. Today, people still refer to a 'Herculean task' or say that someone has 'Herculean strength'. What does 'Herculean' have to do with Greek mythology?

Mid-Year Review

Test Prep

Multiple Choice

Fill in the circle next to the correct answer.

- **1.** Which of the following is 3,450,026 in word form? (Lesson 1.1)
 - A Three million, four hundred fifty thousand, twenty-six
 - (B) Three million, four hundred thousand fifty, twenty-six
 - C Three million, fifty thousand four hundred, twenty-six
 - (D) Three million, forty-five thousand, twenty-six
- **2.** Which number is the greatest? (Lesson 1.3)
 - (A) 15,265

(B) 93,216

© 320,182

- D 320,128
- **3.** Which number when rounded to the nearest thousand is 23,000? (Lesson 1.4)
 - (A) 22,097

(B) 22,499

(C) 23,400

- D 23,501
- **4.** Simplify $20 + 10 \times 19 7$. (Lesson 2.6)
 - (A) 140

B 203

(C) 360

D 563

- **5.** Which is 1,000 less than the product of 3,021 and 79? (Lesson 2.3)
 - (A) 2,100

B 4,100

(C) 237,659

- (D) 239,659
- Which is the difference between the value of the digit 6 in 2,300,628 and in 846,150? (Lesson 1.2)
 - (A) 600

(B) 5,400

(C) 5,522

- (D) 6,000
- 7. Which is the remainder when 4,885 is divided by 21? (Lesson 2.5)
 - (A) 12

B 13

C 14

- D 15
- **8.** Express $\frac{8}{11} \div 4$ in simplest form. (Lesson 4.6)
 - $\bigcirc A \quad \frac{2}{11}$

 \bigcirc $\frac{1}{11}$

- **9.** Find the difference: $\frac{3}{4} \frac{3}{8}$. (Lesson 3.2)
 - $\bigcirc A \quad \frac{5}{8}$

 \bigcirc B \bigcirc 8

 \bigcirc $\frac{1}{2}$

- $\bigcirc \frac{1}{4}$
- **10.** Find the product: $\frac{3}{4} \times \frac{8}{12}$. (Lesson 4.1)
 - $\bigcirc A \quad \frac{1}{2}$

 $\bigcirc B \qquad \frac{2}{3}$

 \bigcirc $\frac{5}{12}$

 \bigcirc $\frac{11}{16}$

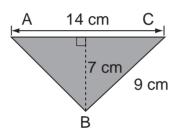
- Estimate the sum of $\frac{6}{7}$ and $\frac{3}{5}$. (Lesson 3.1)

 (A) 0 11.

 \bigcirc $1\frac{1}{2}$

- What is the difference between $3\frac{1}{2}$ and $1\frac{1}{4}$? (Lesson 3.6) 12.
 - $\bigcirc A \quad 2\frac{1}{4}$

- Find the area of triangle ABC. (Lesson 6.2) 13.



- Simplify 4x + 6 2x 1. (Lesson 5.2) 14.

- For what value of y will the inequality 3y + 4 < 8 be true? (Lesson 5.3) **15.**
 - y = 1

- Glass A contains 236 milliliters of milk. Glass B contains 420 milliliters 16. of milk. What is the ratio of the amount of milk in Glass A to that in Glass B? (Lesson 7.3)
 - 89:135

119:165

479 : 660

59 : 105

253

Short Answer

Read the questions carefully. Write your answers in the space provided. Show your work.

17. What is the missing number in the box? (Lesson 1.2)

 $87,412 = 80,000 + \bigcirc + 400 + 10 + 2$

18. Order the numbers from greatest to least. (Lesson 1.3)

35,928

164,239

35,982

916,236

19. Rounding to the nearest thousand, what is the least number that rounds to 32,000? (Lesson 1.4)

20. Find the product of 238 and 4,000. (Lesson 2.2)

21. There are 215 Grade 5 students in Cherrywood school. Each student spends \$17 on a dictionary. How much in all do the students spend on the dictionary? (Lesson 2.7)

Mr. Hull is buying computer equipment for his company. The equipment costs \$45,900. He pays \$5,300 for the first payment. He then pays the rest of the amount in equal payments for 14 months. Find the amount he has to pay each month. (Lesson 2.7)

23. Simplify $(2 + 4) \times 7 - 6 + 11$. (Lesson 2.6)



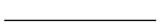
24. Express 38 ÷ 6 as a fraction in simplest from. Then rewrite the fraction as a mixed number. (*Lesson 3.3*)



25. Shaun has $24\frac{1}{2}$ ounces of beads. He has $3\frac{3}{8}$ ounces of beads less than Tony. Find the weight of Tony's beads. (*Lesson 3.7*)



26. Express $24\frac{1}{4} - 15\frac{1}{2}$ as a decimal. (Lessons 3.3 and 3.6)



255

27. Lita jogged $7\frac{3}{10}$ kilometers on Friday. She jogged $1\frac{3}{4}$ kilometers more on Saturday. How many kilometers did she jog on both days? Give your answer as a decimal. (*Lesson 3.7*)



28. Multiply $\frac{70}{6}$ by $\frac{18}{4}$. Express the product as a mixed number in simplest form. (Lesson 4.3)

- **29.** Jamal runs $1\frac{2}{5}$ miles a day to train for a race.
 - **a.** If he runs the same distance for 3 days a week, what is the distance he runs in one week?
 - **b.** If he keeps to this training regime for 8 weeks, what is the total distance he will run in 8 weeks? (Lesson 4.5)

a.			

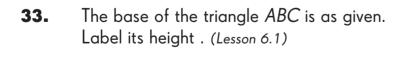
A ball of string $\frac{9}{10}$ meter long is cut into 3 pieces of the same length. Find the length of each piece. (Lesson 4.6)

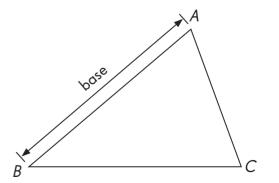


31. 3 batteries cost \$5r and 8 folders cost \$2r. Jason bought 6 batteries and 4 folders. How much does he pay? Give your answer in terms of r. (Lesson 5.4)



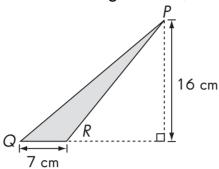
Solve this equation. (Lesson 5.3) 4a - 8 = a + 4



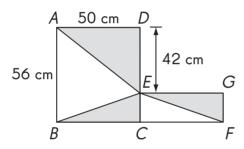


257

34. Find the area of triangle *PQR*. (Lesson 6.2)



35. ABCD and ECFG are rectangles. BC = CF. What is the total area of the shaded parts of the figure? (Lesson 6.2)



The ratio of the masses of flour in two bags is 5:7. The heavier bag contains 1,120 grams of flour. What is the total mass of flour in both bags? (Lesson 7.3)

Rachel, Sally, and Fabio share a pie in the ratio 1 : 2 : 4. What fraction of the pie does Sally get? (Lesson 7.6)

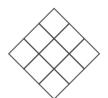
The lengths of three sides of a triangle are in the ratio 3:4:5. The perimeter of the triangle is 156 centimeters. What is the difference in length between the longest and shortest sides?

(Lesson 7.6)

39. Look for a pattern in this set of figures. (Lesson 7.6)







?

Figure	1	Figure 2		Figure 3	F	igure 4
Figure	1	2	3	4		?
Number of Unit Squares	1	4	9	?		169

a. How many unit squares are in Figure 4?

259

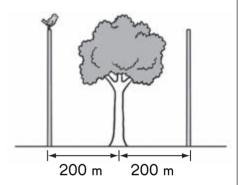
b. Which figure in this pattern will have 169 small squares?

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Extended Response

Solve. Show your work.

Poles are placed an equal distance apart along a 6-kilometer road. There is a tree in between every two poles. The figure shows the distance between a tree and two poles. Poles are placed at the start and end of the road. How many poles are there? (Lesson 2.4)



41. A whole number when divided by 4 gives a remainder of 3. The same whole number when divided by 6 gives a remainder of 1. The number is between 70 and 85. What is the number? (Lesson 2.5)

Sarah earns \$525 more than Andrew each month. They each spend \$1,250 a month and save the rest. Sarah does not have any savings at first. After 11 months, she has \$8,250 in savings. How much does Andrew earn in a year? (Lesson 2.7)

43. Ivan caught a total of $7\frac{2}{5}$ pounds of fish one day. Of the fish caught, $4\frac{5}{8}$ pounds were sea bass and the rest were mackerel. He gave away $1\frac{7}{8}$ pounds of mackerel. How many pounds of mackerel did he have left? Give your answer as a decimal. (Lesson 3.7)

261

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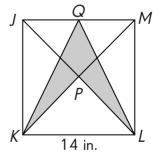
There were $2\frac{4}{5}$ quarts of milk in Container A and some milk in Container B. Lisa poured $1\frac{2}{5}$ quarts of milk each into Container A and Container B. In the end, the total volume of milk in the two containers was 10 quarts. How many quarts of milk were in Container B at first? Give your answer as a decimal. (Lesson 3.7)

45. Tyrone read a book for his school project. On the first day, he read 40 pages. On the second day, he read $\frac{1}{4}$ of the remaining pages. After the second day, he still had to read $\frac{1}{2}$ of the total number of pages to complete the book. How many pages are in the book? (Lesson 4.2)

- **46.** A dealership has 9y cars, 12y trucks and 18 vans. (Lesson 5.4)
 - 4y cars, 3y trucks and 15 vans are sold. Find the total number of vehicles remaining in terms of y.

b. If the value of y is 7, are there more trucks or more cars and vans at first?

The side of square JKLM is 14 inches. KP = MP = JP = LP. Find the total area of the shaded parts. (Lesson 6.2)



263

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48. Freddie has 2 times as many comic books as David. The ratio of the number of comic books David has to the number of comic books Gary has is 5 : 3. Freddie has 110 comic books. How many comic books do David and Gary have in total? (Lesson 7.6)

- The ratio of the volume of water in Container A to the volume of water in Container B to the volume of water in Container C is 2:3:8. Container B contains 900 milliliters of water. (Lesson 7.6)
 - What is the volume of water in Container C?

b. Find the total volume of water in the three containers.

Test Prep

Multiple Choice

Shade the circle next to the correct answer.

- **1.** In 130.426, the digit 2 is in the _____ place. (Lesson 8.1)
 - (A) tens

(B) tenths

(C) hundredths

- (D) thousandths
- Use front-end estimation with adjustment to estimate 6,189 3,674. (Lesson 1.4)
 - (A) 1,000

(B) 2,000

© 3,000

- D 4,000
- 3. Simplify $48 \div 8 + 13 \times 3$. (Lesson 2.6)
 - A 45

B 54

© 57

- D 75
- **4.** Express $10\frac{1}{4} 4\frac{1}{2}$ as a decimal. (Lesson 3.3)
 - (A) 6.25

(B) 5.75

C 5.43

- D 5.34
- **5.** Express 9.062 as a mixed number in simplest form. (Lesson 8.3)
 - $\bigcirc A 9 \frac{62}{100}$

 $\bigcirc B 9\frac{31}{50}$

 \bigcirc 9 $\frac{62}{1000}$

- $\bigcirc 9\frac{31}{500}$
- **6.** What is the product of 96 and 13? (Lesson 2.3)
 - (A) 900

B 960

(C) 1,170

D 1,248

- Divide 84 by 400. (Lesson 9.4) **7.**
 - 0.21

0.84

2.1

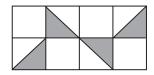
- Simplify 16p + 5 3p 2. (Lesson 5.2) 8.

19p + 713p + 3

- (B) 19p 3 (D) 13p 3
- For what value of y will the inequality 4y 8 > 10 be true? (Lesson 5.3) 9.
 - 2

4

- What percent of the figure is shaded? (Lesson 10.1) 10.



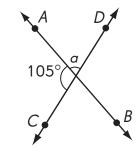
- 25%
- 40%

- 35%
- The price of a cell phone is \$500. Kathleen pays 8% sales tax on the price 11. of the cell phone. How much sales tax does she pay? (Lesson 10.4)
 - \$400

\$50

\$40

- \$8
- \overrightarrow{AB} and \overrightarrow{CD} are lines. Find the measure of $\angle a$. (Lesson 12.1) 12.
 - 180°
 - 105°
 - 75°
 - 57°

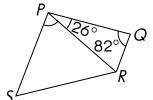


- The sides of triangle ABC are in whole inches. AB = 5 inches and BC = 11 inches. Which of these is a possible length for \overline{AC} ? (Lesson 13.4)
 - (A) 3 inches

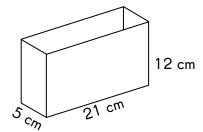
(B) 6 inches

(C) 12 inches

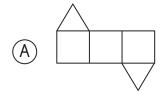
- D 16 inches
- 14. In the trapezoid PQRS, $\overline{PS} \parallel \overline{QR}$. Find the measure of $\angle SPR$. (Lesson 13.5)
 - (A) 98°
 - (B) 72°
 - © 52°
 - D 26°

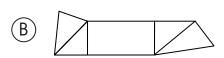


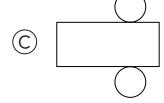
- **15.** How many 1-centimeter cubes can be put into the box? (Lesson 15.5)
 - (A) 38
 - B 1,200
 - (C) 1,260
 - (D) 1,620

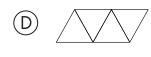


16. Which of these nets can form a triangular pyramid? (Lesson 14.1)





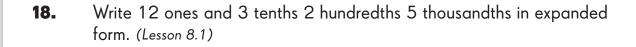




Short Answer

Read the questions carefully. Write your answers in the spaces provided. Show your work.

17. The ratio of the volume of water in bucket A to the volume of water in bucket B is 3:5. The total volume of water in the two buckets is 56 liters. What is the volume of water in bucket B? (Lesson 7.3)

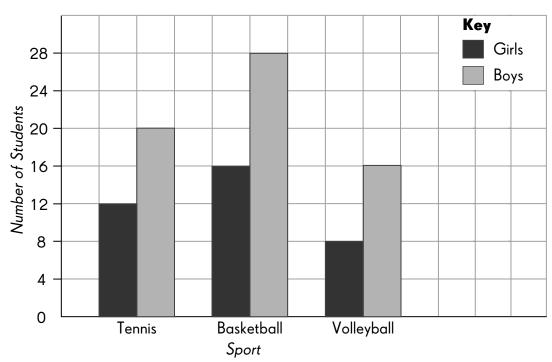


19. What is the missing number in the equation? (Lesson 9.4)

20. Order the decimals from least to greatest. (*Lesson 8.2*) 11.05, 11.00, 11.10, 11.009

21. $\frac{3}{8}$ of the regular price of a digital watch is \$21. The price of the digital watch after discount is \$21. Find the dollar amount of the discount. (Lesson 10.4)

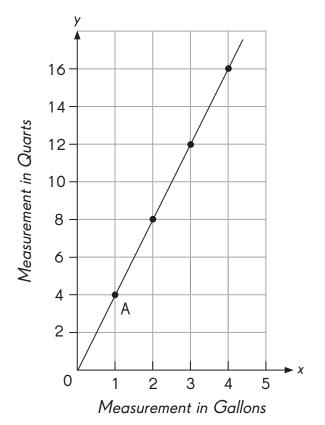
Favorite Sports of Students



- **22.** For which sport is the difference between the number of boys and girls the greatest? (Lesson 11.1)
- **23.** How many more boys than girls prefer tennis? (Lesson 11.1)

Use the data in the graph to answer questions 24 and 25.

Conversion Between Gallons and Quarts

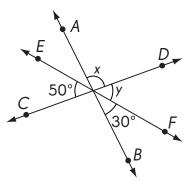


- **24.** Mrs. Richards buys 8 quarts of milk in 4 days. How many gallons of milk does she buy? (Lesson 11.2)
- **25.** What is the equation of the graph? (Lesson 11.2)
- Mrs. Mani has 1 orange, 1 apple, 1 peach and 1 apricot. She has 3 different flavored yogurt bars. She packs one fruit and one yogurt bar into a lunch box. Find the number of combinations she can pack in one box. (Lesson 11.3)

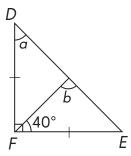
A box contains 6 red pens, 4 blue pens, 8 green pens, and some black pens. Leslie picks a pen and returns it to the box each time. The outcomes are recorded in the table.

Number of Times	Number of Times	Number of Times	Number of Times
a Red Pen is	a Blue Pen is	a Green Pen is	a Black Pen is
Picked	Picked	Picked	Picked
8	5	14	3

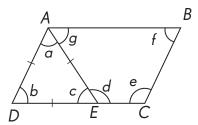
- What is the experimental probability of drawing a green pen? (Lesson 11.4)
- **b.** If the theoretical probability of drawing a black pen is $\frac{1}{10}$, how many black pens are in the box? (Lesson 11.4)
- **28.** \overrightarrow{AB} , \overrightarrow{CD} and \overrightarrow{EF} are lines. Find the measures of $\angle x$ and $\angle y$. (Lessons 12.1 and 12.3)



29. In triangle *DEF*, DF = EF. Find the measures of $\angle a$ and $\angle b$. (Lessons 13.2 and 13.3)



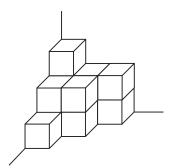
30. ABCD is a parallelogram and ADE is an equilateral triangle. Identify all the angles that have the same measure as $\angle f$. (Lessons 13.3 and 13.5)



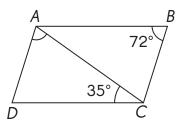
31. Brian has \$50. He buys 10 similar books and has x dollars left. What is the cost of each book? (Lesson 5.4)

32. A solid figure has 2 flat surfaces, 1 curved surface, no edges and no vertices. Name this solid figure. (Lesson 14.2)

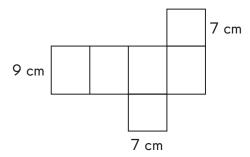
33. How many unit cubes are used to build the solid? (Lesson 15.1)



34. ABCD is a parallelogram. Find the measure of $\angle DAC$. (Lesson 13.5)

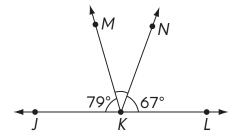


35. The net of a square prism is as given. Use the net to find the surface area of the prism. (Lesson 15.3)



36. Express $3\frac{1}{5} + 2\frac{1}{20}$ as a decimal. (*Lesson 3.5*)

- ____
- **37.** \overrightarrow{JL} is a line. Find the measure of $\angle MKN$. (Lesson 12.1)



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Extended Response

Solve. Show your work.

There are 450 seats in a theater. 48% of the seats are occupied. 38. How many seats are not occupied?

The area of a plot of land is 2,496 square meters. A small part 39. of the land is fenced. The ratio of the area of the plot of land to the area that is not fenced is 48: 31. What is the area of the land that is not fenced?

40. Harry buys a sofa set that costs \$2,000. He pays for it by installments at an interest rate of 5% per year. What is the total amount he has to pay at the end of one year?

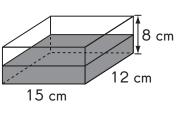
Mrs. Jacobs buys 20 kilograms of rice at \$0.84 per kilogram. She buys 700 grams of shrimp at \$1.02 per 100 grams. How much does she spend in total?

42. A fish tank measures 40 centimeters by 25 centimeters by 24 centimeters. It is filled with water from a tap. The fish tank is $\frac{5}{8}$ full in 6 minutes. Find the volume of water that flows from the tap each minute.

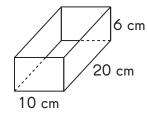
43. Mrs. Jackson has \$90. She spends $\frac{1}{4}$ of her money on food, $\frac{1}{2}$ of the remainder on clothes and saves the rest. How much does she save?

44. Team A has 42 members. Team B has 18 more members than team A. What percent of the members from team B must be transferred to team A so that team A has as many members as team B?

45. An equal amount of water is poured into two empty tanks, P and Q. Tank P is then $\frac{1}{2}$ -filled. What fraction of tank Q is filled with water?



Ρ



Q

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There is some water in a tank. Water is then poured into the tank until the volume of water is 8 times as much as the initial volume of water in the tank. When another 16.75 liters of water is added, the total volume of water in the tank becomes 20.35 liters. How much water is in the tank at first? Give your answer in liters.