Name	
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SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) A number that can be represented as a quotient of intergers with a denominator not equal to zero is called a(n) _____ number.

1) _____

Express the rational number as a terminating or repeating decimal number.

2)
$$\frac{78}{100}$$

2) _____

3)
$$\frac{3}{7}$$

3) _____

Write the fraction in lowest terms.

4)
$$\frac{24}{166}$$

4) _____

Write the fraction that represents the shaded area.





5) _____

Perform the indicated operation and reduce your answer to lowest terms.

6)
$$\frac{5}{9} - \frac{3}{7}$$

6) _____

7)
$$\frac{5}{6} + \frac{1}{8}$$

7) _____

Perform the operation and give the answer as a fraction in lowest terms.

$$8)\left(\frac{11}{13}\right)\left(-\frac{2}{9}\right)$$

8) _____

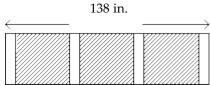
$$9)\left(-\frac{2}{3}\right) \div \left(\frac{1}{5}\right)$$

9) _____

Solve the problem.

10)

10) _____



Four posts are used to support a fence. Each post is 4 inches wide and the posts are evenly s If the width of the fence is 138 inches, how much space is between each post?

11)

11) _____

Find the rational number halfway between the following rational numbers:

$$\frac{1}{3}$$
, $\frac{5}{6}$

Write the fraction as a terminating decimal.

12)
$$\frac{23}{25}$$

12) _____

Decide if the number is rational or irrational.

13)
$$\sqrt{36}$$

13) _____

14)
$$\sqrt{89}$$

14) _____

Approximate using your calculator.

15)
$$\sqrt{48}$$

15) _____

Simplify. Then use your calulator to approximate.

16)
$$\sqrt{135}$$

16) _____

Perform the indicated operations.

17)
$$8\sqrt{5} + 4\sqrt{45}$$

17) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 18) Given that $\pi \approx 3.141592653589793238462643383279...$, which of the following is the best approximation of π . explain your choice!
 - A) $\frac{355}{113}$
- B) $\frac{22}{7}$
- C) 3.1605
- D) 3.141592

RT ANSWER. Write the word or phrase that best completes each statement or answers th 19) Indicate the number of significant digits in the following number. 4 300 000 000	e question.
19) marcate the number of significant dights in the following number. 4 300 000 000	19)
20)	20)
Fid the greatest possible error fo the following measurement. $6\frac{3}{8}$ in.	<i></i> /,
8	
21)	21)
A blueprint for a part specifies a measurement of 48.9 cm. An actual measurement of the part has a measurement of 51.2 cm.	
Determine the following: absolute error, relative error and percent error.	
22)	22)

23)	23)	
Using the provided ruler. What is the length of the following line segment in english and metric u	ınits:	
24)	24)	
Find the distance between the following points.		
7.4 cm and 19.3 cm		
25)	25)	
Find the midpoint between the following points.		
7.4 cm and 19.3 cm		

Answer Key

Testname: 20182_1_CHAPTER12TEST

- 1) 2) 0.78
- 3) 0.428571
- 4) $\frac{12}{83}$
- 5) $\frac{3}{8}$
- 6) $\frac{8}{63}$
- 7) $\frac{23}{24}$
- 8) $-\frac{22}{117}$
- 9) $-\frac{10}{3}$
- 10) $40\frac{2}{3}$ inches
- 11) 12) 0.92
- 13) Rational
- 14) Irrational
- 15) $4\sqrt{3}$
- 16) $3\sqrt{15}$
- 17) $20\sqrt{5}$ 18) A

- 19) 20) 21) 22) 23) 24) 25)