

SAMPLE PROVINCIAL ACHIEVEMENT TEST 2 PART A (NO CALCULATOR)

Use the following information to answer the next question.

 $\sqrt{80}\sqrt{95}\sqrt{91}\sqrt{83}\sqrt{101}\sqrt{105}\sqrt{89}\sqrt{92}$

How many of the given square roots have a value between 9 and 10?

Answer:

(Record your answer on the answer sheet.)

Use the following information to answer the next question.

When simplified, $5^{13} \div 5^{8}$ can be written in the form a^b .

What is the value of a + b?

Answer: a+b=

(Record your answer as an integer value on the answer sheet.)

What is the value of $(-9)^2 + (-2)^3$?

Answer:

(Record your answer as an integer value on the answer sheet.)

Use the following information to answer the next question.

Equation 1 $6^0 + 7^0 + 9^0 = 3$

Equation 2 $(2^5 \times 2^7)^3 = 2^{36}$

Equation 3 $2^6 - 2^3 = 2^3$

Equation 4 $\frac{2^0 \times 2^2}{2} = 2$

Which of the equations are true? Write the equation numbers in numerical order.

Answer:

(Record your answer on the answer sheet.)

What is the value of x in the equation $0.4 = \sqrt{x}$?

Answer: x =

(Record your answer on the answer sheet.)

What is the value of $\frac{3}{4}$: $\frac{5}{6}$ expressed as a fraction in simplest form?

(Record the numerator in the first column) (Record the fraction bar in the second column) (Record the denominator in the third column)

(Record your answer on the answer sheet.)

Order the following rational numbers from smallest value to greatest value, using the numbers 1, 2, 3 and 4.

Use the number 1 to represent thesmallest value and the number 4 to represent the greatest value.

Answer: _

32	1	4	21
40	5	10	35

(Record all four digits of your answer on the answer sheet.)

What is the value of $0.5 \times 0.5 + 2.7 \div 0.9$? Express your answer to the nearest hundredth.

Answer: _

(Record your answer on the answer sheet.)

What is the value of the expression $34 - 7(4-2)^2$?

Answer: _

(Record your answer as an integer value on the answer sheet.)



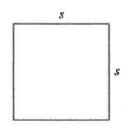
10. What is $4^2 + 5 \times 4 - 11$?

Answer:

(Record your answer as an integer value on the answer sheet.)

Use the following information to answer the next question.

Alberto's living room has a square shape. He measured the length of one wall to be 4.3 m.



11. What is the area of Alberto's living room expressed to the nearest tenth?

Answer: _____ m²

(Record your answer on the answer sheet.)

12. What is the approximate square root of $\sqrt{\frac{143}{9}}$ to the nearest whole number?

Answer:

(Record your answer on the answer sheet.)

13. What is the value of $\sqrt{\frac{25}{9}} \times 1\frac{1}{2}$ to the nearest tenth?

A ------

Answer: _____

(Record your answer on the answer sheet.)

14. Solve for x in the following equation. -3(x+10) = 2(x-20)

Answer:

(Record your answer as an integer value on the answer sheet.)

15. Solve for x in the following equation.

$$\frac{x}{4} + 3 = 12$$

Answer: x =

(Record your answer as an integer value on the answer sheet.)

16. Solve for x in the following equation. 6(2x + 1) = (2x + 3)

Express your answer to the nearest tenth.

Answer: x =

(Record your answer on the answer sheet.)

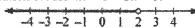
17. Solve for y in the following equation. 4y - 22 = 42

Answer: y =

(Record your answer as an integer value on the answer sheet.)

Use the following information to answer the next question.

The following number line shows the solution set for 4x + 6 > 3x + 5.



18. How many whole numbers on the given solution set will satisfy the inequality?

Answer: ____

(Record your answer on the answer sheet.)

19. When x = 2, what is the value of $(6x - 5) - (2x^2 + 3)$?

Answer: x =

(Record your answer as an integer value on the answer sheet.)