N3CS19 Practice Set 32

Instructions: Answer each question on loose leaf, quad-ruled (graph paper), headed properly and written in lead-graphite. Remember to fold paper along the center, work exercises in order top to bottom, left column then right column. Staple multiple pages

1) State the Axiom represented by the math statement: $4(x+8)=4\bullet x+4\bullet 8$

2) State the Axiom represented by the math statement: $6+(7+x)=(6+7)+x$

3) State the Axiom represented by the math statement: $7+(x+13)=7+(13+x)$

4) State the Axiom represented by the math statement: $6\bullet(7\bullet 8)=(6\bullet 7)\bullet 8$

5) State the Property represented by the math statement:
$$x+(-6)=-7$$
$$x+(-6)+6=-7+6$$

6) State the Property represented by the math statement:
$$\frac{1}{3}x=-7$$
$$\frac{3}{1}\bullet\frac{1}{3}x=-7\bullet\frac{3}{1}$$

7) State the axiom represented by the math statement: $5\bullet 6\bullet 7=7\bullet 5\bullet 6$

8) State the Property represented by the math statement: If $a=b$ and $b=c$, thus $a=c$

9) State the Property represented by this statement: $x=x$

10) State the Property represented by this statement: If $e=f$, then $f=e$

11) Find 4 consecutive odd integers such that the sum is 104.

12) $\frac{3}{8}+\frac{5}{6}=$; express your solution as an improper fraction and a decimal, rounded to the nearest 10th.

13) $12+4n=82$
$n=$; express your solution as an improper fraction and decimal, rounded to the nearest 10th.

14) Simplify: $3(2-x)-5+9x$

15) Translate into a math statement: *four less than twice the sum of 7 and a number.*

16) $\frac{3}{4}(8x-20)=6x-5(2+x)$
$x=$

17) Translate into a math statement: *two-thirds of the difference of a number and 3 is 5 less than six times the number.*

18) A rectangle has a width of 6 in and a perimeter of 26 inches. What is the length of the rectangle?

19) Over the weekend KeKe spent 2 hours on an assignment, and equal amounts of time studying for 4 exams for a total of 16 hours. How much time did she spend studying for each exam?

20) Find two consecutive even integers such that the sum of the larger and twice the smaller is 62.

21) Kawhi Leonard earns $23.1 million with the Toronto Raptors. The average LAUSD teacher salary is $75k; how many times larger is Leonard's salary to an average LAUSD teacher? Express your solution in standard form and scientific notation.

22) A cube has a volume of $1728cm^3$; What is its surface area?

23) Simplify, writing exponents positive: $\frac{\left(4x^{-3}\right)^2}{8x^2}$

24) **#PushTheEnvelope**: Write an expression for Joe's age if Mel is x years old and Joe's age is twice as old as Mel was six years ago.

25) Write as a product of its simplest rational and irrational factors: $\sqrt{75}$

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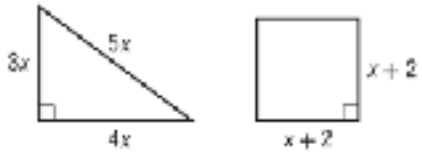
26) Solve the formula $F = \frac{9}{5}C + 32$ for 'C'

27) The sum of three consecutive integers such that the sum of second and the third is 6 less than half the first. Find the 3 integers.

28)

POLYGONS The triangle and square shown below have the same perimeter. What is the length of one side of the square?



29) Write as a fraction: $0.\overline{321}$

30) **#PushTheEnvelope**: Simplify: $\left(-2\sqrt{3}-1\right)\left(\sqrt{3}-2\right)$ *hint:* Distribute!