7th SUMMER MATH PRACTICE: **JUNE SET**

#1 Add 213.28 + 26.8 *

- 186.48
- 240.08
- 239.08
- 240.36

#2 Subtract 63.7 - 23.58 *

- 38.29
- 40.28
- 87.28
- 40.12

#3 Multiply $3\frac{1}{3} \times 2\frac{1}{2}$

- $8\frac{1}{3}$
- $6\frac{1}{6}$
- $3\frac{1}{8}$
- $8\frac{1}{6}$

#4 Divide $7\frac{1}{2} \div 2\frac{2}{3}$

- $1\frac{13}{16}$
- 20
- $13\frac{2}{16}$
- $2\frac{13}{16}$

#5 Add or Subtract (5) + (-3)

- -2
- -8
- 8
- 2

#6 Add or Subtract -5 - + 8

- -12
- -3
- --13
- 3

#7 Multiply $12 \cdot -7$

- 84
- 5
- -84
- -63

#8 Divide $-48 \div -16$

- 3
- -3
- 2.7
- -22

#9 Evaluate using Order of Operations

$$(20 - 90 \div 3^2) \times 60$$

- 600
- 60
- 31,740
- 123

#10 Evaluate using Order of Operations

$$6 + 4^2 - 15 \div 5 + |-2|$$

- 17
- 21
- 3.5
- 38

#11 Solve the Proportion $\frac{12}{48} = \frac{3}{x}$

- x = 12
- x = 14
- x = 192
- x = 41

#12 Solve the Proportion $\frac{3}{5} = \frac{x}{75}$

- x = 35
- x = 73
- x = 45
- x = 15

#13 Find the probability using the spinner shown P(Red)

- $\frac{2}{6}$
- $\frac{1}{4}$
- $\frac{2}{5}$
- $\frac{1}{3}$

#14 Find the probability using the spinner shown P(not Yellow)

- $\frac{1}{6}$
- $\frac{5}{6}$
- $\frac{1}{3}$
- $\frac{1}{4}$

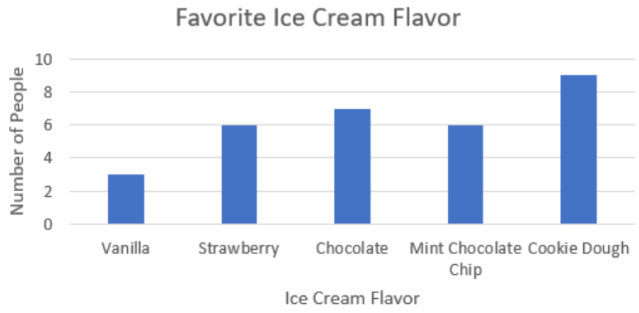
#15 Solve for x $\frac{x}{2} - 6 = 18$

- x =24
- x =44
- x =48
- x =12

#16 Solve for x $3x - 7 = 14$

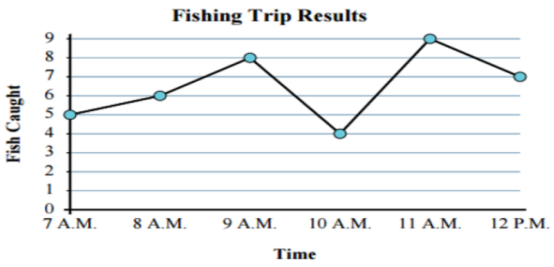
- x = 66
- x =21
- x = 7
- x = 63

#17 How many more people prefer cookie dough ice cream over vanilla ice cream?



- 6 more people
- 12 more people
- 5 more people
- none; an equal number of people like Cookie Dough and Vanilla

#18 How many more fish were caught at 11 a.m. than 8 a.m.?



- 5 more fish
- 4 more fish
- 3 more fish
- 15 more fish

#19 Find the GCF and LCM of 24 and 60

- GCF: 12, LCM: 120
- GCF: 6; LCM: 120
- GCF: 12; LCM: 240
- GCF: 6; LCM: 1,440

#20 Find the GCF and LCM of 12, 20, and 60

- GCF: 4, LCM: 120
- GCF: 4; LCM: 60
- GCF: 2; LCM: 60
- GCF: 12; LCM: 120

#21 What is 15% of 85?

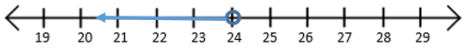
- 5.6
- 12.75
- 13
- 127.5

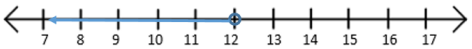
#22 35 is what percent of 150?

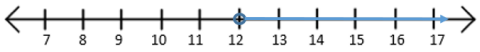
- 27%
- 52.5%
- 20%
- $23.\underline{3}\,\%$

23) Solve and graph the inequality $2x < 18$

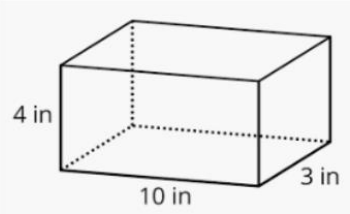
24) Solve and graph the inequality $x - 6 > 18$





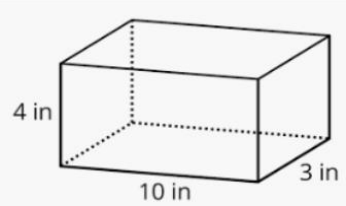


#25 Find the Surface Area *



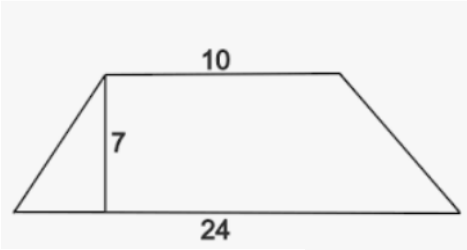
- 164 in^2
- 120 in^2
- 82 in^2
- 182 in^2

26. Find the Volume *



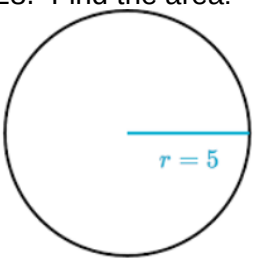
- 164 in^3
- 120 in^3
- 210 in^3
- 80 in^3

27. Find the area:



- 84 square units
- 1,680 square units
- 119 square units
- 124 square units

28. Find the area:



- 31.4 square units
- 150.7 square units
- 78.5 square units
- 35 square units

#29 Subtract $5\frac{1}{3} - 2\frac{3}{4}$

- $2\frac{7}{12}$
- $1\frac{2}{3}$
- $3\frac{5}{12}$
- $1\frac{7}{12}$

#30 Add $2\frac{3}{5} + 1\frac{3}{4}$

- $4\frac{3}{10}$
- $3\frac{17}{20}$
- $4\frac{7}{20}$
- $4\frac{17}{20}$

7th SUMMER MATH PRACTICE: **JULY SET**

#1 Add $3.35 + $0.86 + $7.00

- $4.28
- $10.11
- $11.20
- $11.21

#2 Subtract 3.85 - 1.7

- 5.55
- -3.72
- 2.15
- 3.72

#3 Multiply $2\frac{2}{5} \times 3\frac{1}{6}$

- $6\frac{1}{10}$
- $9\frac{1}{3}$
- $8\frac{3}{5}$
- $7\frac{3}{5}$

#4 Divide $3\frac{1}{7} \div \frac{3}{14}$

- $6\frac{1}{10}$
- $14\frac{2}{3}$
- $2\frac{2}{3}$
- $3\frac{15}{18}$

#5 Add or Subtract -60 + 95

- -35
- -155
- 155
- 35

#6 Add or Subtract -16 - 38

- 54
- 22
- -54
- -22

#7 Multiply -12×-14

- -26
- -168
- 168
- 26

#8 Divide $-168 \div 4$

- -42
- 42
- 672
- -672

#9 Evaluate using Order of Operations

$17 + 9 - 4^2$

- 10
- 22
- 18
- 24

#10 Evaluate using Order of Operations

$|-12 - 9| \div 7$

- -3
- 3
- 4.3
- -4.3

#11 Solve the Proportion $\frac{12}{x} = \frac{3}{4}$

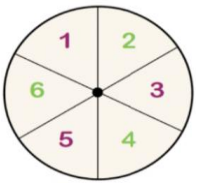
- x = 12
- x = 14
- x = 16
- x = 48

#12 Solve the Proportion $\frac{3}{8} = \frac{24}{x}$

- x = 35
- x = 8
- x = 64
- x = 3

#13 Find the probability using the spinner shown

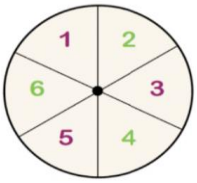
P(Even)



- $\frac{1}{2}$
- $\frac{1}{6}$
- $\frac{2}{6}$
- $\frac{1}{3}$

#14 Find the probability using the spinner shown

P (>4)



- $\frac{5}{6}$
- $\frac{1}{6}$
- $\frac{1}{4}$
- $\frac{1}{3}$

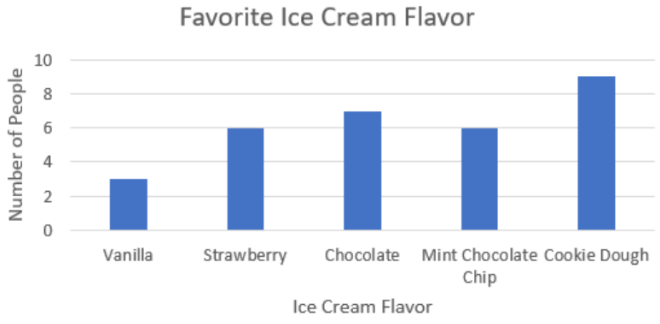
#15 Solve for x $\frac{x}{4} - 6 = 3$

- x =24
- x =48
- x =36
- x =12

#16 Solve for x $2x + 16 = 22$

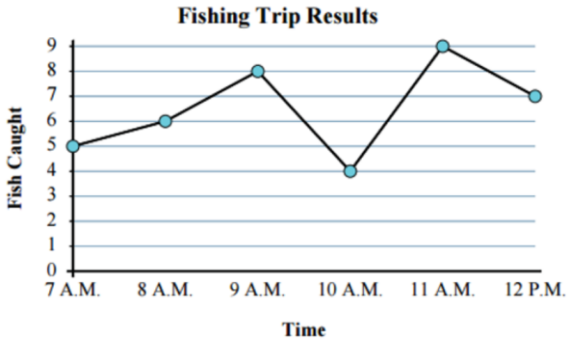
- x = 12
- x =19
- x = 3
- x = 1.2

#17.How many more people prefer cookie dough ice cream over strawberry ice cream?



- 6 more people
- 12 more people
- 3 more people
- none; an equal number of people like Cookie Dough and Vanilla

18. How many more fish were caught at 11 A.M. then 10 A.M?



- 5 more fish
- 4 more fish
- 3 more fish
- 15 more fish

#19 Find the GCF and LCM of 48 and 56

- GCF: 336 LCM: 6
- GCF: 336; LCM: 8
- GCF: 8; LCM: 336
- GCF: 8; LCM: 113

#20 Find the GCF and LCM of 48, 80, and 112

- GCF: 840, LCM: 16
- GCF: 16; LCM: 1680
- GCF: 8; LCM: 840
- GCF: 16; LCM: 420

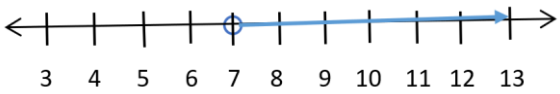
#21 1.5 is what percent of 12?

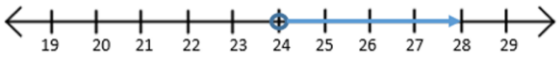
- 8%
- 12.5%
- 18%
- 800%

#22 120 is 4% of what number?

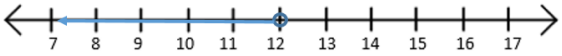
- 4.8
- 48
- 300
- 3000

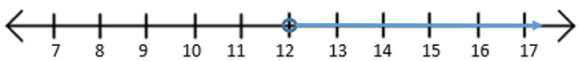
#23 Solve and graph the inequality $3x > 21$



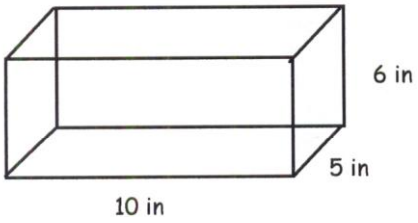


#24 Solve and graph the inequality $x + 21 > 33$



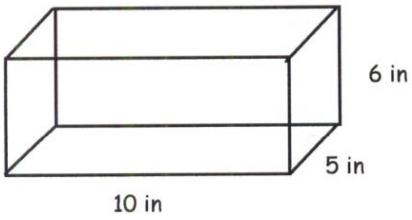
○ 

#25 Find the Surface Area



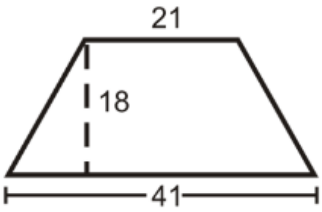
- 280 in^2
- 140 in^2
- 300 in^2
- 21 in^2

#26 Find the Volume



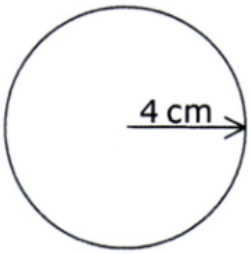
- 164 in^3
- 300 in^3
- 144 in^3
- 30 in^3

#27 Find the area:



- 1,116 square units
- 15,498 square units
- 558 square units
- 369 square units

#28 Find the area:



- 200.96 cm^2
- 12.56 cm^2
- 50.24 cm^2
- 25.12 cm^2

#29 Add $4\frac{1}{6} + 2\frac{3}{8}$

- $7\frac{1}{12}$
- $6\frac{2}{7}$
- $3\frac{1}{7}$
- $6\frac{13}{24}$

#30 Subtract $9\frac{1}{3} - 1\frac{5}{6}$

- $7\frac{2}{3}$
- $8\frac{1}{4}$
- $8\frac{1}{2}$
- $7\frac{1}{2}$

MATH HELP WALL

1) Add 3.905 + 4.96

3.905 + 4.96

1
3.905
+4.960
8.865

2) Subtract 0.91 - 0.745

0.91 − 0.745

8 10
0.9 1 0
− 0.7 4 5
0.1 6 5

3) Multiply $3\frac{1}{9} \times 2\frac{1}{7}$

$3\frac{1}{9} \times 2\frac{1}{7}$

$\frac{4\ 28}{3\ 9} \times \frac{15^{5}}{7_{1}} = \frac{20}{3} = 6\frac{2}{3}$

6
3|20
18
2

4) Divide $3\frac{1}{4} \div 1\frac{1}{2}$

$3\frac{1}{4} \div 1\frac{1}{2}$

$\frac{13}{4} \div \frac{3}{2}$ (KCR)

$\frac{13}{2\ 4} \times \frac{2^{1}}{3} = \frac{13}{6} = 2\frac{1}{6}$

5) SImplify (-5) + (-7)

$(-5) + (-7)$

$-5 + -7$ Socks Rule

$-5 - 7$

-12

"Same signs + and keep
Different signs -
Take the sign of the larger #
Then you'll be exact!"

6) Simplify (4) - (+5)

$(4) - (+5)$

$4 + -5$ Socks Rule

$4 - 5$ "Sing song"

-1

7) Multiply (-9)(-3)

$(-9)(-3)$

$+27$

8) Divide (-28) ÷ (7)

$(-28) \div (7)$

-4

9) & 10) Solve using Order of Operations

P – grouping symbols
E – exponents
M/D – Multiply or Divide L → R
A/S – Add or SUbtract L → R

P $10 \times |-3| + (48 \div 6)^2 \times 2$

$10 \times 3 + (48 \div 6)^2 \times 2$

E $10 \times 3 + 8^2 \times 2$

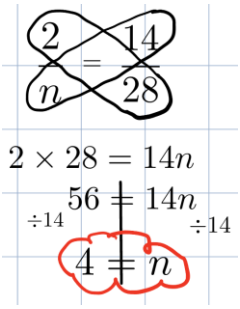
M $10 \times 3 + 64 \times 2$

D $30 + 128$

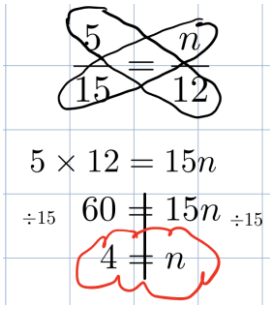
A

S 158

11) Solve the Proportion $\frac{2}{n} = \frac{14}{28}$



12) Solve the Proportion $\frac{5}{15} = \frac{n}{12}$



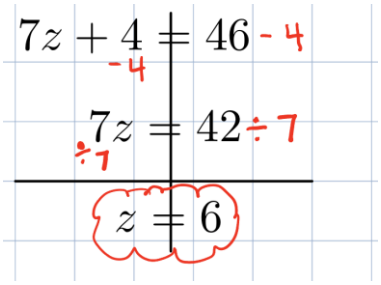
13) & 14) Solve the Probability using the spinner shown

Find P(4 or 6) = $\frac{2}{8} \overset{\div 2}{\underset{\div 2}{}} = \frac{1}{4}$

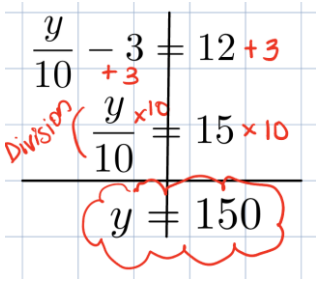
Find P(yellow) = $\frac{2}{8} = \frac{1}{4}$

Find P(> 3) = $\frac{5}{8}$

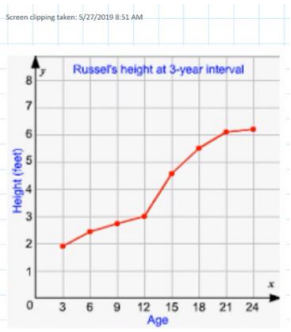
15) Solve for z



16) Solve for y



17)



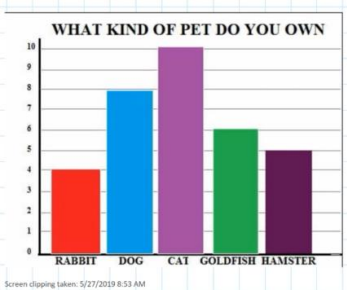
How much did Russel grow between age 12 and 18?

3 ft $\quad 5\frac{1}{2}$ ft

$$5\frac{1}{2} - 3$$

Russell grew $2\frac{1}{2}$ ft

18)

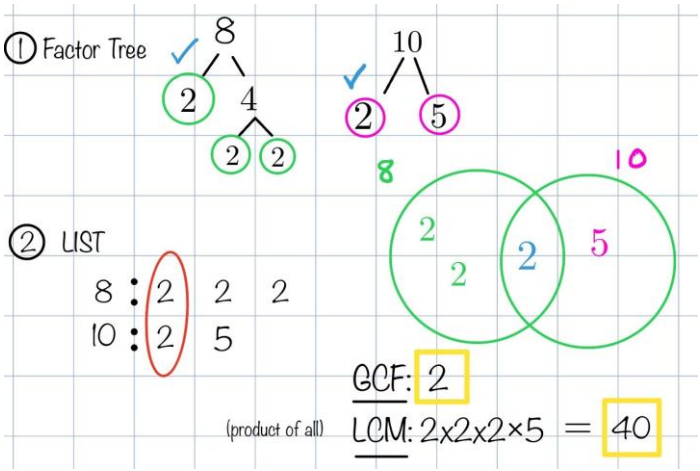


How many more people own cats over rabbits?

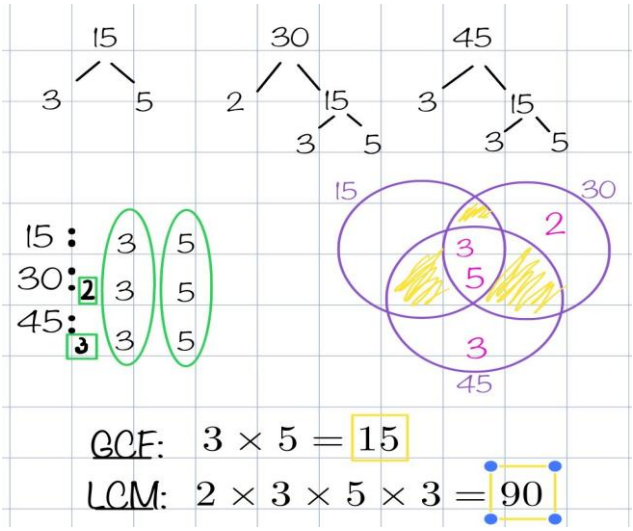
$10 - 4 = 6$

6 more people own cats over rabbits

19) Find the GCF and LCM of 8 and 10



20) Find the GCF and LCM of 15, 30 and 45



21) 60 is what % of 240?

Percent Proportions using — $\frac{\text{is}}{\text{of}} = \frac{\%}{100}$

60 is what percent of 240?

$\frac{60}{240} = \frac{x}{100}$

25%

$60 \times 100 = 240x$

$\div 240 \quad \div 240$

$6000 = 240x$

$x = 25$

$240 \overline{)6000}$ → 25, −480, 1200, −1200, 0

22) What is 40% of 25?

What is 40% of 25

$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$

$\frac{x}{25} = \frac{40}{100}$

$100x = 25 \times 40$

$\div 100 \quad \div 100$

$100x = 1000$

$x = 10$

$100 \overline{)1000}$ → 10, −100, 00

$25 \times 40 = 1000$

23) Solve and graph the inequality: x - 6 > 4

$x - 6 > 4$

$+6 \quad +6$

$x > 10$

9 10 11 12

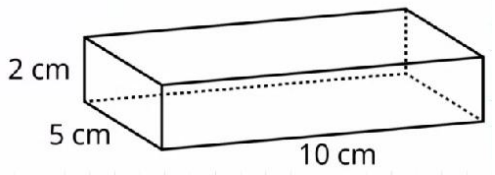
24) Solve and graph the inequality: 3x < 21

$\div 3 \quad 3x < 21 \quad \div 3$

$x < 7$

3 4 5 6 7 8 9 10

25) Find the Surface Area:



$l = 10$ cm

$w = 5$ cm

$h = 2$ cm

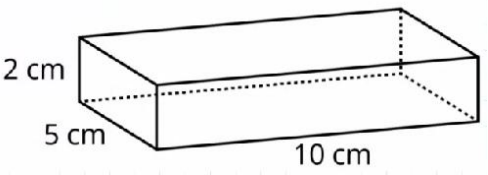
$SA = 2lw + 2wh + 2lh$

$= 2(10)(5) + 2(5)(2) + 2(5)(2)$

$= 100 + 20 + 40$

$SA = 160\,cm^2$

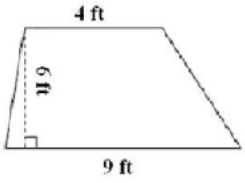
26) FInd the Volume:



$l \cdot w \cdot h = 10 \times 5 \times 2$

$50 \times 2 = 100cm^2$

27) FInd the Area:



$(b_1 + b_2)\, h \div 2$

or

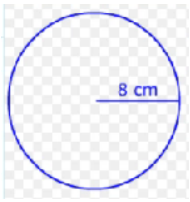
$\frac{(b_1 + b_2)\, h}{2}$

$\frac{(4+9)\,6}{2}$

$= \frac{13 \times 6}{2} = \frac{78}{2}$

$= 39 ft^2$

28) Find the Area:



$(A = \pi r^2)$

$= 3.14 \times 8 \times 8$

3.14
$\times \quad 64$
$\overline{1256}$
$+ \overline{18840}$
$\overline{200.96}$

$A = 200.96\ cm^2$

29) Subtract $13\frac{1}{6} - 9\frac{3}{4}$

$13\frac{1}{6} \times 2 \quad - \quad 9\frac{3}{4} \times 3$

$\boxed{6} \times 2 \qquad \boxed{4} \times 3$

$12\frac{12}{12} + \frac{2}{12}$

$13\frac{2}{12} - 9\frac{9}{12}$

$12\frac{14}{12} - 9\frac{9}{12} = 3\frac{5}{12}$

30) Add $10\frac{9}{20} + 8\frac{3}{4}$

$10\frac{9}{20} + 8\frac{3}{4}$

$\boxed{10}\frac{9}{20} + \boxed{8}\frac{15}{20}$

$1\frac{1}{5}$

$18\frac{24 \div 4}{20 \div 4} = 18\frac{6}{5} = 19\frac{1}{5}$