Lesson #123

1. 8.EE.8

$4x-5y=9$
$2(-2x-y=-29)$
$4x-5y=9$
$-4x-2y=-58$
$\frac{-7y}{-7}=\frac{-49}{-7}$ $y=7$

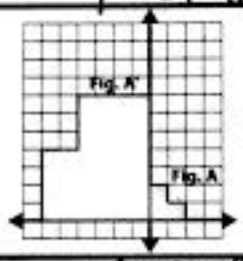
$4x-5(7)=9$
$4x-35=9$
$+35 \quad +35$
$\frac{4x}{4}=\frac{44}{4}$
$x=11$

(11, 7)

2. 8.NS.1

irrational because it is a non-repeating decimal

3. 8.G.4



$\frac{2}{7}$ $\frac{1}{4}$

not similar

4. 8.EE.4

$4.2\times10^{-3}+7.63\times10^{-4}$
$4.2\times10^{-3}+.763\times10^{-3}$

4.963×10^{-3}

5. 8.G.8

$a^2+b^2=c^2$
$7^2+16^2=c^2$
$49+256=c^2$
$305=c^2$

The distance is 17.46 units.

6. 8.EE.7

$8-3c=3c+2$
$+3c \quad +3c$
$8=6c+2$
$-2 \quad -2$
$\frac{6}{6}=\frac{6c}{6}$ $c=1$

$c = 1$

one solution

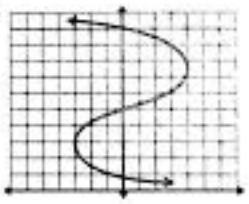
7. 8.SP.3

A) Students can expect to have approximately 8 cavities if they spend 0 seconds brushing daily.

B) Students get 8 cavities for every 10 seconds they brush.

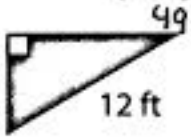
C) It takes 1 minute to brush 8 teeth.

8. 8.F.3



no

9. 8.G.7



$7^2+b^2=12^2$
$49+b^2=144$
$b^2=95$
$b=9.7$ ft

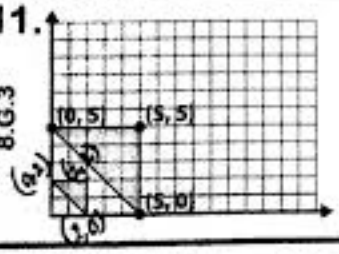
10. 8.F.2

A) $y=-\frac{5}{2}x$

B) $y=\frac{5}{2}x$

The slopes are the same, the sign indicates they slant in different directions.

11. 8.G.3



12. 8.NS.2

10.95