

February 23rd	5-a-day	Numeracy
Double 17 34	Half 42 21	
9×8 72	4×12 48	
$500 - 123$ 377	$1000 - 82$ 918	
19×9 171	154×21 3234	
Simplify $4w + 3w + 2w$ $9w$	Simplify $5 \times 2w$ $10w$	

Mary cycles at 15mph for $1\frac{1}{2}$ hours.

How far does she cycle?

$$s = vt \quad s = vt$$

$$15 \times 1.5$$

$$22.5 \text{ miles}$$

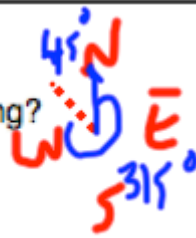
Estimate 8.9×201

$$\approx 9 \times 200 = 1800$$

A boat travels south.

On what bearing is it traveling?

$$180^\circ$$



Simplify

$$y^{10} \div y^5$$

A helicopter travels north-west.

On what bearing is it traveling?

$$315^\circ$$

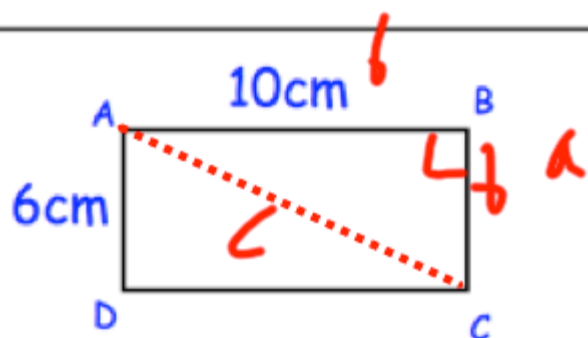
$$y^5$$

Work out the distance AC

$$a^2 + b^2 = c^2$$

$$6^2 + 10^2 = c^2$$

$$136 = c^2 \quad c = 11.66 \text{ cm}$$



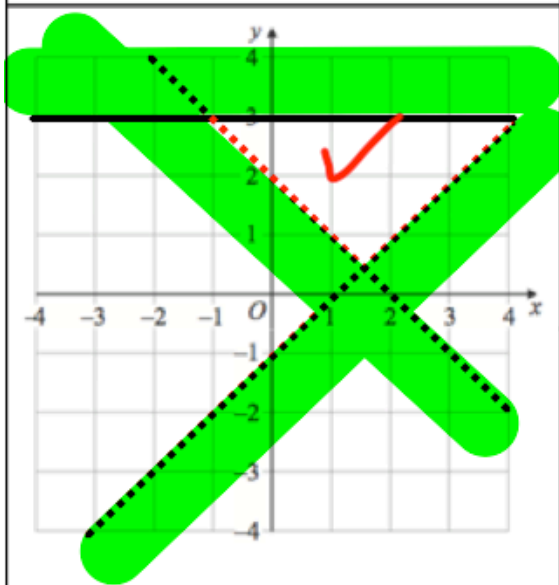
Jenny runs 10 miles in 64 minutes
 Paddy runs 10km in 41 minutes.

Who had a greater average speed?

Sonny $\frac{10}{64} = 0.15625$ miles per min
 $\times 1.6$
 $\rightarrow 0.25$ km per min ✓ faster

Paddy $\frac{10}{41} = 0.2439$ km per min

$$s = \frac{d}{t}$$



Show the region which satisfies

$y > x - 1$
 $y \leq 3$
 $y > 2 - x$

Solve the simultaneous equations

$2x - y = 7$
 $3x + 5y = 4$

x 5 $10x - 5y = 35$
Add $3x + 5y = 4$
 \hline
 $13x = 39$

$6 - y = 7$
 $x = 3$ $y = -1$

check $9 - 5 = 4$ ✓

Simplify fully

$\frac{8x}{x^2 - 3x - 4} \div \frac{2}{x^2 - 1}$

$(x-4)(x+1)$ $(x-1)(x+1)$

$\frac{4x}{(x-4)(x+1)} \times \frac{(x+1)(x-1)}{2}$

$\frac{4x(x-1)}{x-4}$