

OOPS!

Below is a worked solution to a question that I feel you could have gained more marks on ..

You can use these rules to change temperature from °C to °F

Approximate rule: $\times 2 + 30$
Multiple the °C temperature by 2 and then add 30

Exact rule: $\times 1.8 + 32$
Multiple the °C temperature by 1.8 and then add 32

Amy uses the **approximate rule** to change 20°C to °F

Dan use the **exact rule** to change 20°C to °F

- (a) Work out the difference between Amy's result and Dan's result

Amy	Dan	Difference
$\times 2 + 30$	$\times 1.8 + 32$	
$20 \times 2 = 40$	$20 \times 1.8 = 36$	$= 70 - 68$
$+ 30$	$(2 \times 1.8 = 3.6)$	$= 2$
$\underline{70}$	$+ 32$	$\underline{\underline{\hspace{1cm}}}$
	$\underline{68}$	$\underline{\underline{\hspace{1cm}}} \quad (4)$
	so $20 \times 1.8 = 36$	

Jade use the approximate rule to change a temperature from °C to °F. The result is 110°F

- (b) What °C temperature did Jade change to °F?

$$\begin{aligned} \times 2 + 30 &= 110 \\ \text{so } 110 - 30 &= 80 \\ 80 \div 2 &= \underline{\underline{40^\circ}} \end{aligned}$$

check $40 \times 2 = 80$

$$\begin{array}{r} 80 \\ + 30 \\ \hline 110 \end{array}$$

✓ (3)

FACEPALM!!

NOW HAVE A GO AT THIS:



You can use these rules to change temperature from °C to °F

Approximate rule: Multiple the °C temperature by 2 and then add 30

Exact rule: Multiple the °C temperature by 1.8 and then add 32

Amy uses the **approximate rule** to change 30°C to °F

Dan use the **exact rule** to change 30°C to °F

- (a) Work out the difference between Amy's result and Dan's result

(4)

Jade use the approximate rule to change a temperature from °C to °F. The result is 100°F

- (b) What °C temperature did Jade change to °F?

(3)