## Summer week 6 Lesson 2-02.06.20

## Starter


b $3 \times 2=6$
d $6 \times 6=36$
e $3 \times 8=24$
$f \boxed{10} \times 6=60$
g $3 \times 9=27$
h $6 \times \square=42$
i $9 \times 6=54$
j $5 \times 6=30$
$\mathbf{k} \times 6=48$
$17 \times 3=21$

## Canonbury Home Learning

## Year 5 Maths

## Steppingstone activity

Summer week 6 Lesson 2-02.06.20

## LO: To reason about angles on a straight line

## Success Criteria:

1. Remember there are 180 degrees in a straight line.
2. Look to see what angle / angles you already know.
3. Subtract these amounts from 180 to find the missing angle.


Rhys is measuring angles on a straight line.

## He says:

 the other is $55^{\circ}$.

## Could he be right? Explain how you know.

Rhys cannot be right because his angles total $170^{\circ}$.

## Now complete these:

1a. James is measuring angles on a
straight line.
He says:


Could he be right? Explain how you
Could
know.
James cannot be right as his angles only total $170^{\circ}$.

3a. John says angle $B$ is the same as
angle A. Do you agree? Explain your answer.


2 a . One of the angles below has lost a digit. What should the missing digit be?

John is correct as both angles A and $B$ are $90^{\circ}$ angles. Two $90^{\circ}$ angles makes $180^{\circ}$.

## Canonbury Home Learning

Year 5 Maths
Summer week 6 Lesson 2-02.06.20
LO: To reason about angles on a straight line

## Success Criteria:

## 1. Remember there are 180 degrees in a straight line

2. Look to see what angle / angles you already know.
3. Subtract these amounts from 180 to find the missing angle.

## Model:

## One of the angles below has lost a digit. What should it be?

Till says that angle $\mathbf{A}$ is the same as Angle C. Do you agree? Explain your answer


Angles not drawn to scale.

Till is correct because $116^{\circ}+32^{\circ}=148^{\circ}$. $180^{\circ}-148^{\circ}=32^{\circ}$ which is the same as $A$.

## Year 5 Maths

## Summer week 6 Lesson 2-02.06.20

| Task 1 |
| :--- |
| 4a. Tyler could be right as his angles total |
| $180^{\circ}$. |
| 5a. The missing digit is a 5. |
| 6 a . Jim is correct as $60^{\circ}+60^{\circ}=120^{\circ} \cdot 180^{\circ}-120^{\circ}$ | $=60^{\circ}$ which is the same as angle $B$ and $C$.


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7a. Eryk cannot be right as his angles total

$$
170^{\circ}
$$

8a. The missing digits are a 4 and a 3.9a. Pam is correct as one third of $180^{\circ}=60^{\circ}$ so $60^{\circ}+60^{\circ}=120^{\circ} \cdot 180^{\circ}-120^{\circ}=60^{\circ}$ which is the same as angle $C$ at $60^{\circ}$.


Task 3
Here are two angles

Angle $b$ is a prime number between 40 and 50

Use the clue to calculate wha missing angles could be.

$$
\begin{aligned}
& b=43^{\circ}, a=137^{\circ} \\
& b=47^{\circ}, a=133^{\circ}
\end{aligned}
$$



- The total of angle $f$ and $g$ are the same as angle e
- Angle e is $9^{\circ}$ more than $1 e=63^{\circ}$ given angle.
- Angle $f$ is $11^{\circ}$ more than

Calculate the size of the angl $f=37^{\circ}$
Create your own straight line $g=26^{\circ}$ this one for your partner.

