

Part of

**BEAT  
THAT!**



Welsh Language

**Big Maths**

The **SAFE** Challenges!

Thank you to Ysgol Gymraeg Treganna, Ysgol Gymraeg Glan Ceubal and Ysgol Morfa Rhianedd for their generous help in translating the SAFE Challenges to Welsh.



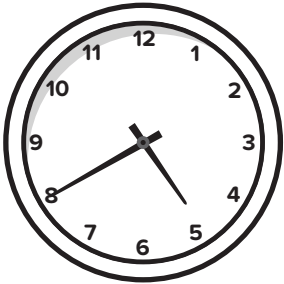
# Big Maths Beat That!: Teacher Notes

SAFE Challenge 12			
	Step Location in the SAFE framework		Title of Step
	Progress Drive	Step No.	
Q1	Amounts: Amounts of Time	22	I know how many days in each month, year and leap year
Q2	Amounts: Amounts of Time: Telling the Time	9	I can say how long until o'clock
Q3	Amounts: Amounts of Time: Telling the Time	11	I can tell the time to the nearest minute
Q4	Amounts: Amounts of Time: Telling the Time	15	I can convert time from analogue to 24-hour clock
Q5	Amounts: Amounts of Turn	13	I can use acute and obtuse to accurately describe properties of shapes
Q6	Fractions: Fractions of a Whole	14	I know any fraction equal to 1
Q7	Fractions: Fractions of a Set	9	I can find fractions of amounts using my tables (1 part)
Q8	Fractions: Fractions of a Set	10	I can find fractions of amounts using my tables (2 or more parts)
Q9	Fractions: Fractions: Calculation	2	I can solve addition calculations with fractions
		3	I can solve subtraction calculations with fractions
Q10	Dangerous Maths: Algebra	4	I can use a two-step function machine

1

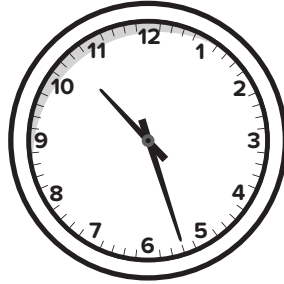
Sawl diwrnod sydd ym mis Ionawr? \_\_\_\_\_ ddyd

2



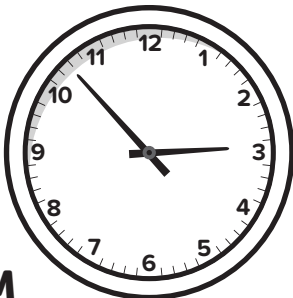
- 5 munud i 5  
 20 munud wedi 8  
 20 munud i 5

3



Ysgrifennwch yr amser  
ar y cloc digidol

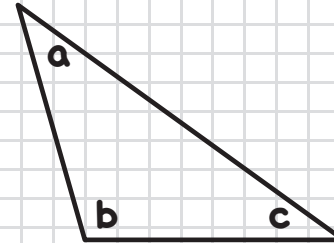
4



PM

Faint o'r gloch yw hi ar  
gloc 24 awr?

5



Pa ongl sy'n aflem?

6

Pa ffraciwn sy'n  
hafal i 1?

$$\frac{4}{5} \quad \frac{11}{11} \quad \frac{11}{10}$$

7

$$\frac{1}{4} \circ 24 =$$

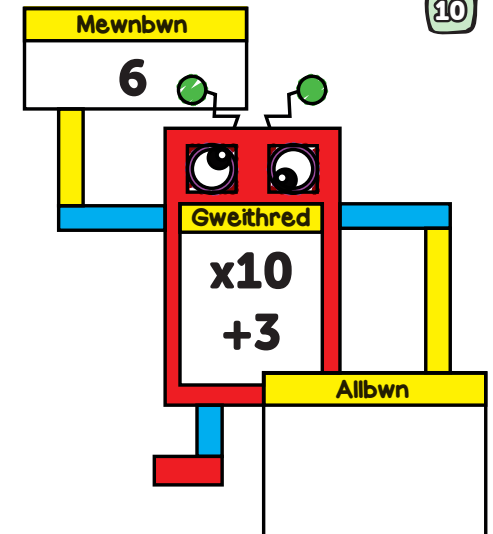
8

$$\frac{3}{4} \circ 24 =$$

9

$$\frac{3}{8} + 4 + \frac{2}{8} =$$

10



FY SGÔR DDIWETHAF?! .....

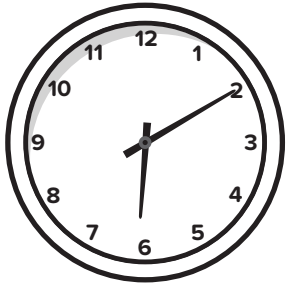
YDW I WEDI EI GURO?! .....



1

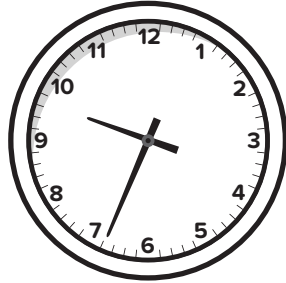
Sawl diwrnod sydd ym mis Mawrth? \_\_\_\_\_ ddyd

2



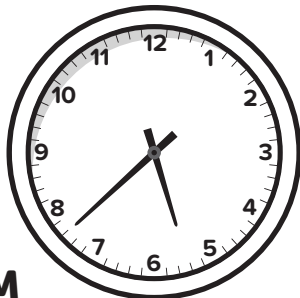
- 10 munud i 2
- 10 munud wedi 6
- 15 munud i 4

3



Ysgrifennwch yr amser  
ar y cloc digidol

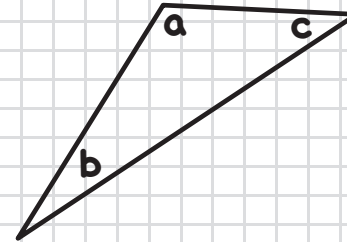
4



AM

Faint o'r gloch yw hi ar  
gloc 24 awr?

5



Pa ongl sy'n aflem?

\_\_\_\_\_

6

Pa ffracsiwn sy'n  
hafal i 1?

$$\frac{6}{7} \quad \frac{5}{8} \quad \frac{9}{9}$$

7

$$\frac{1}{3} \circ 18 =$$

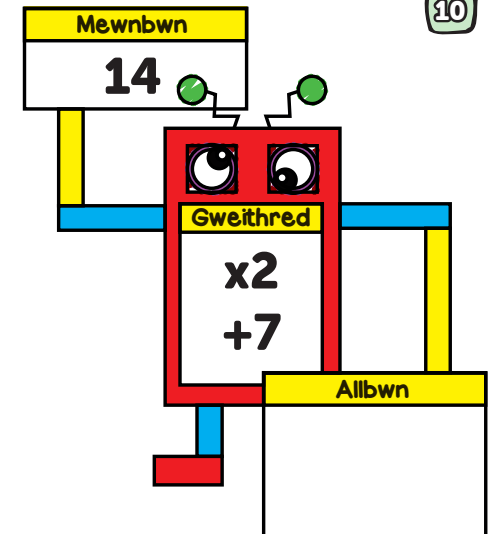
8

$$\frac{2}{3} \circ 21 =$$

9

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

10



FY SGÔR DDIWETHAF?! .....

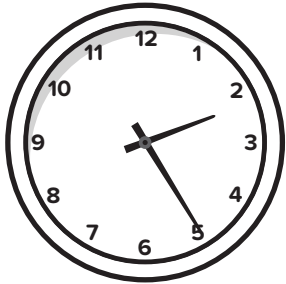
YDW I WEDI EI GURO?! .....



1

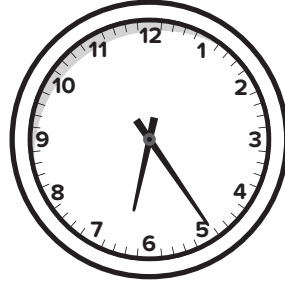
Sawl diwrnod sydd mewn Blwyddyn? \_\_\_\_\_ dydd

2



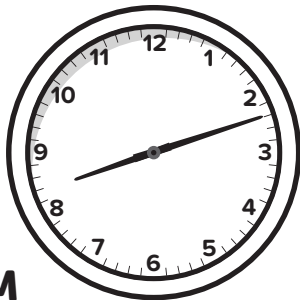
- 25 munud wedi 2
- 20 munud wedi 3
- 10 munud i 9

3



Ysgrifennwch yr amser  
ar y cloc digidol

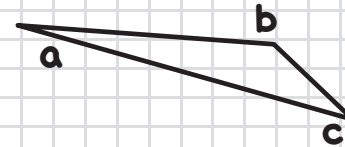
4



PM

Faint o'r gloch yw hi ar  
gloc 24 awr?

5



Pa ongl sy'n aflem?

6

Pa ffracsiwn sy'n  
hafal i 1?

$$\frac{8}{8} \quad \frac{10}{12} \quad \frac{4}{11}$$

7

$$\frac{1}{4} \circ 36 =$$

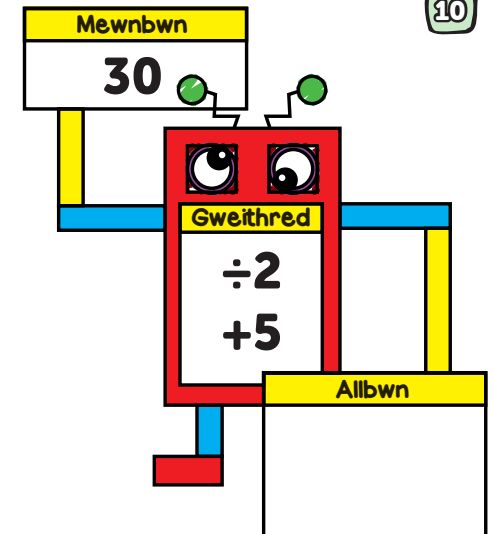
8

$$\frac{3}{4} \circ 32 =$$

9

$$\frac{1}{9} + \frac{4}{9} + \frac{2}{9} =$$

10



FY SGÔR DDIWETHAF?!

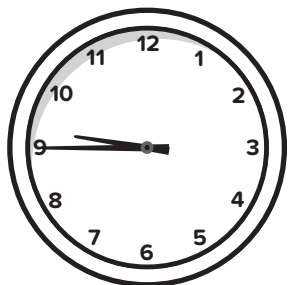
YDW I WEDI EI GURO?!



1

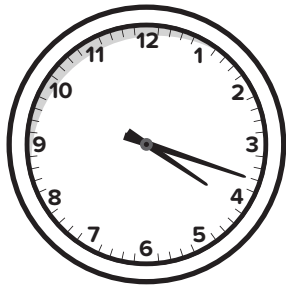
Sawl diwrnod sydd ym mis Medi? \_\_\_\_\_ dydd

2



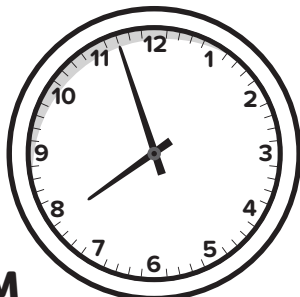
- 15 munud i 6
- 15 munud wedi 9
- 15 munud i 10

3



Ysgrifennwch yr amser ar y cloc digidol

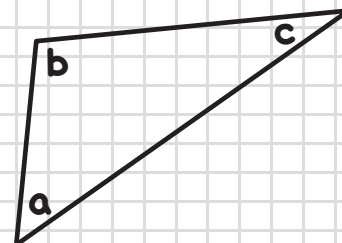
4



AM

Faint o'r gloch yw hi ar gloc 24 awr?

5



Pa ongl sy'n aflem?

\_\_\_\_\_

6

Pa ffracsiwn sy'n hafal i 1?

$$\frac{13}{15} \quad \frac{13}{13} \quad \frac{3}{9}$$

7

$$\frac{1}{3} \circ 12 =$$

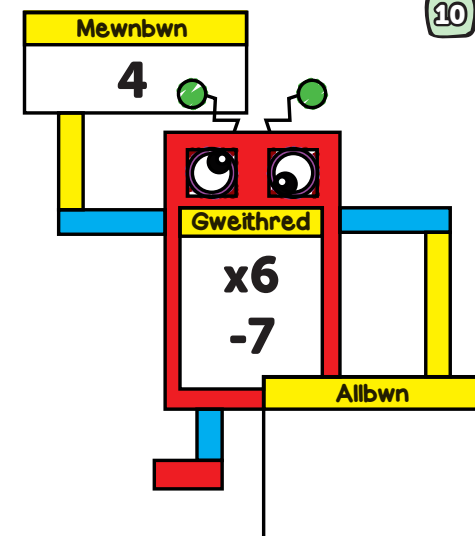
8

$$\frac{2}{3} \circ 27 =$$

9

$$\frac{2}{9} + \frac{2}{9} + \frac{4}{9} =$$

10



FY SGÔR DDIWETHAF?! .....

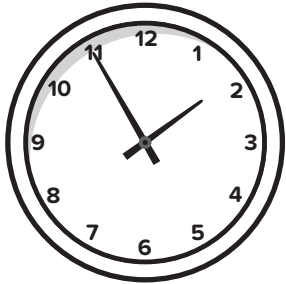
YDW I WEDI EI GURO?! .....



1

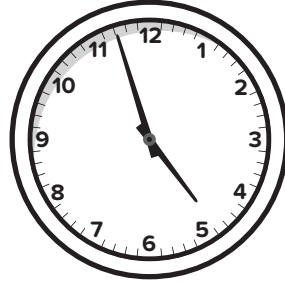
Sawl diwrnod sydd ym mis Mai? \_\_\_\_\_ dydd

2



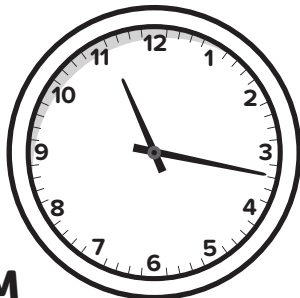
- 20 munud i 7
- 10 munud wedi 3
- 5 munud i 2

3



Ysgrifennwch yr amser  
ar y cloc digidol

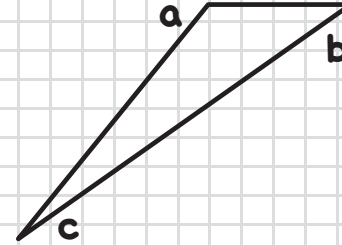
4



AM

Faint o'r gloch yw hi ar  
gloc 24 awr?

5



Pa ongl sy'n aflem?

6

Pa ffracsiwn sy'n  
hafal i 1?

$$\frac{11}{17} \quad \frac{2}{6} \quad \frac{7}{7}$$

7

$$\frac{1}{4} \circ 16 =$$

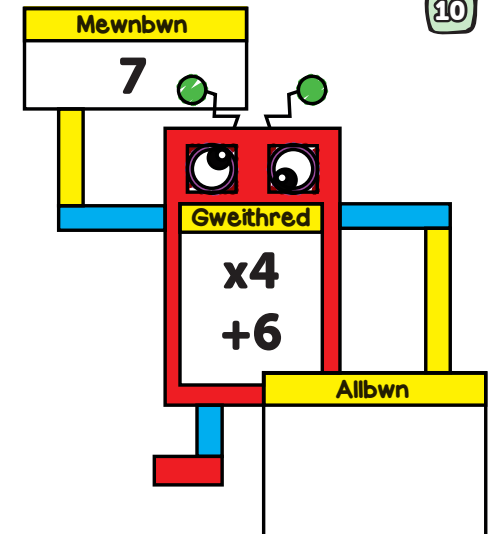
8

$$\frac{2}{4} \circ 12 =$$

9

$$\frac{1}{5} + 4 + \frac{2}{5} =$$

10



FY SGÔR DDIWETHAF?!

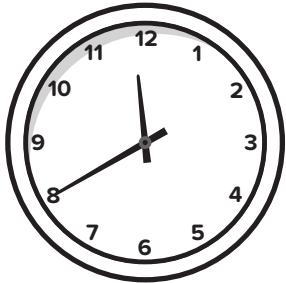
YDW I WEDI EI GURO?!



1

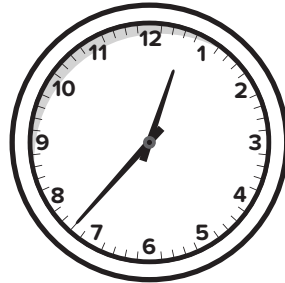
Sawl diwrnod sydd ym mis Mehefin? \_\_\_\_\_ dydd

2



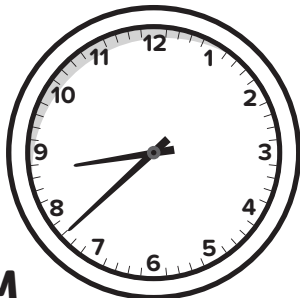
- 20 munud i 7
- 20 munud wedi 3
- 20 munud i 12

3



Ysgrifennwch yr amser ar y cloc digidol

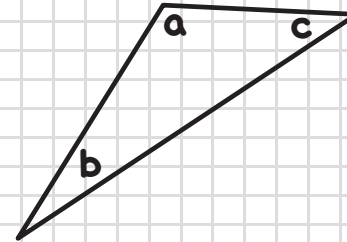
4



PM

Faint o'r gloch yw hi ar gloc 24 awr?

5



Pa ongl sy'n aflem?

\_\_\_\_\_

6

Pa ffracsiwn sy'n hafal i 1?

$$\frac{16}{16} \quad \frac{4}{5} \quad \frac{6}{8}$$

7

$$\frac{1}{3} \circ 9 =$$

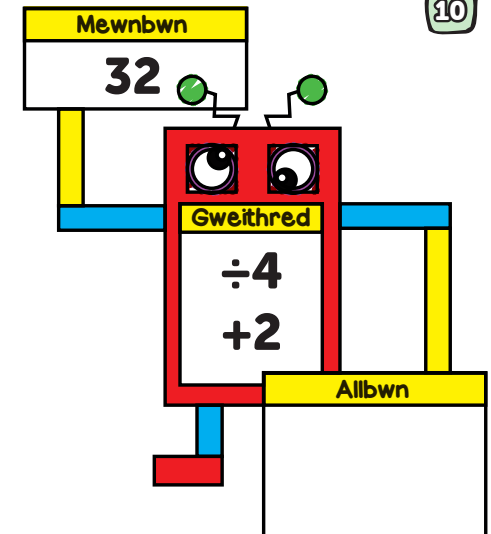
8

$$\frac{2}{3} \circ 15 =$$

9

$$\frac{6}{7} - \frac{4}{7} - \frac{1}{7} =$$

10



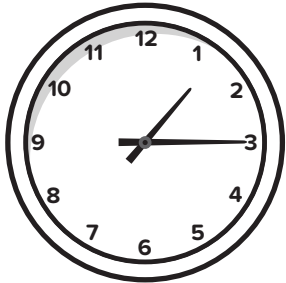
FY SGÔR DDIWETHAF?! .....

YDW I WEDI EI GURO?! .....

1

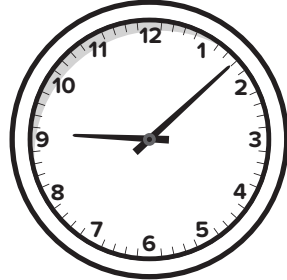
Sawl diwrnod mewn blwyddyn naid? \_\_\_\_\_ dydd

2



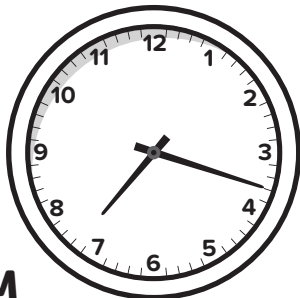
- 15 munud i 7
- 15 munud wedi 1
- 20 munud i 9

3



Ysgrifennwch yr amser  
ar y cloc digidol

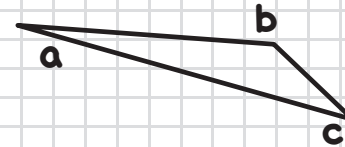
4



PM

Faint o'r gloch yw hi ar  
gloc 24 awr?

5



Pa ongl sy'n aflem?

6

Pa ffracsiwn sy'n  
hafal i 1?

$$\frac{4}{9} \quad \frac{6}{6} \quad \frac{2}{12}$$

7

$$\frac{1}{4} \circ 20 =$$

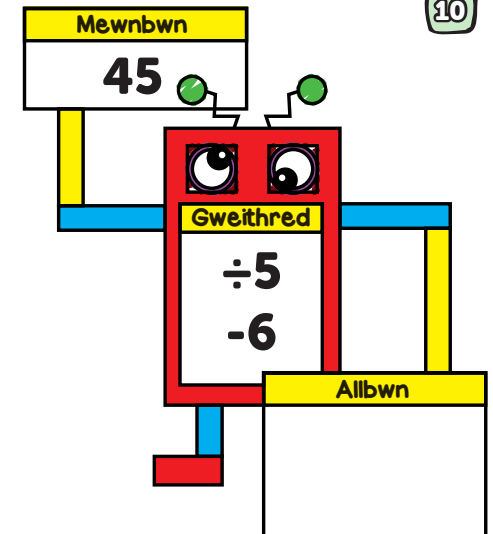
8

$$\frac{3}{4} \circ 36 =$$

9

$$\frac{2}{8} + \frac{2}{8} + \frac{1}{8} =$$

10



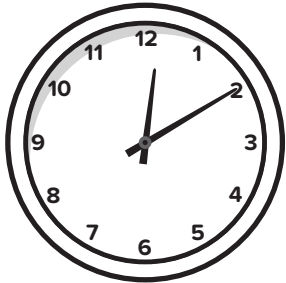
FY SGÔR DDIWETHAF?! .....

YDW I WEDI EI GURO?! .....

1

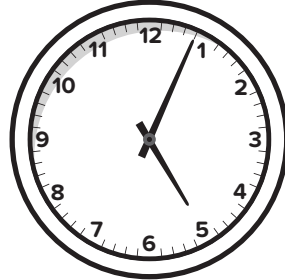
Sawl diwrnod sydd ym mis Hydref? \_\_\_\_\_ dydd

2



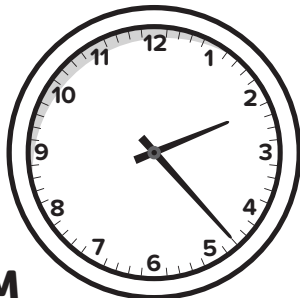
- 20 munud i 11
- 10 munud wedi 12
- 5 munud i 6

3



Ysgrifennwch yr amser  
ar y cloc digidol

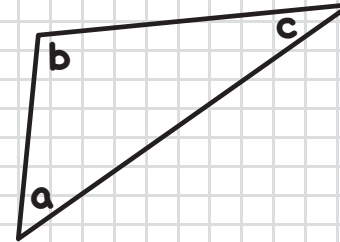
4



AM

Faint o'r gloch yw hi ar  
gloc 24 awr?

5



Pa ongl sy'n aflem?

6

Pa ffracsiwn sy'n  
hafal i 1?

$$\frac{3}{4} \quad \frac{3}{7} \quad \frac{8}{8}$$

7

$$\frac{1}{4} \circ 8 =$$

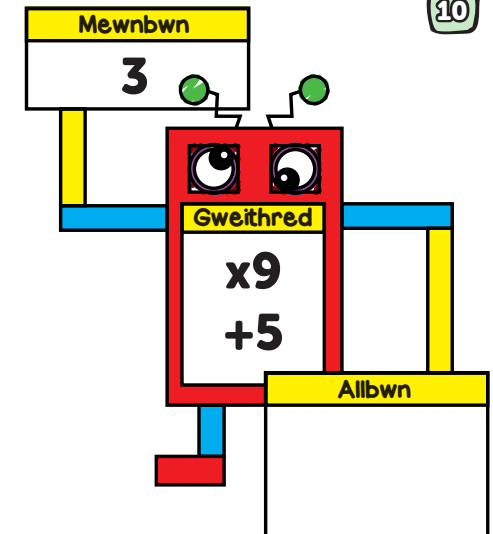
8

$$\frac{2}{3} \circ 18 =$$

9

$$8 + \frac{4}{9} + \frac{2}{9} =$$

10



FY SGÔR DDIWETHAF?! .....

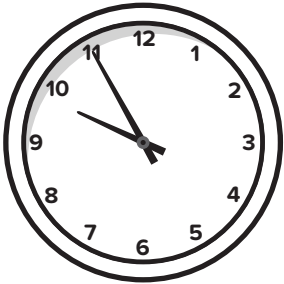
YDW I WEDI EI GURO?! .....



1

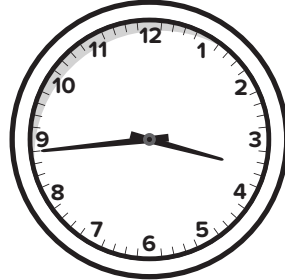
Sawl diwrnod sydd ym mis Ebrill? \_\_\_\_\_ dydd

2



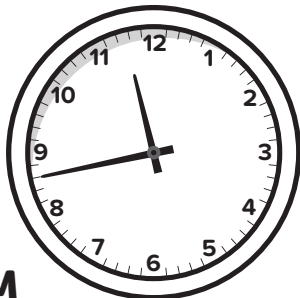
- 10 munud i 6
- 10 munud wedi 5
- 5 munud i 10

3



Ysgrifennwch yr amser ar y cloc digidol

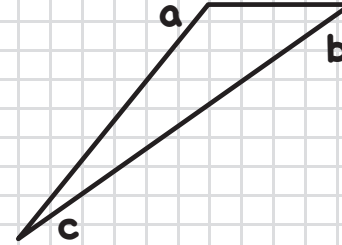
4



PM

Faint o'r gloch yw hi ar gloc 24 awr?

5



Pa ongl sy'n aflem?

6

Pa ffracsiwn sy'n hafal i 1?

$$\frac{12}{12} \quad \frac{2}{9} \quad \frac{1}{5}$$

7

$$\frac{1}{3} \circ 6 =$$

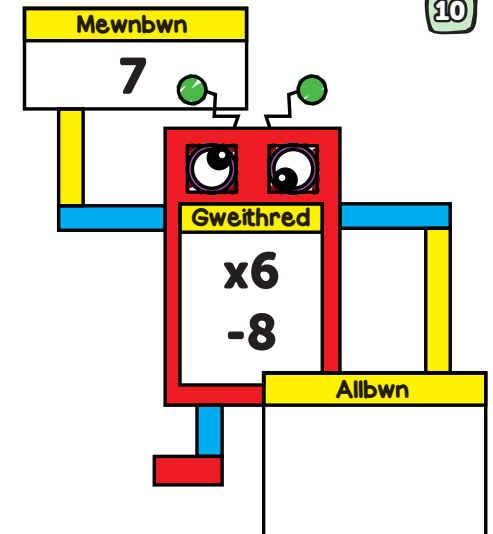
8

$$\frac{3}{4} \circ 32 =$$

9

$$\frac{2}{6} + \frac{1}{6} + \frac{2}{6} =$$

10



FY SGÔR DDIWETHAF?! .....

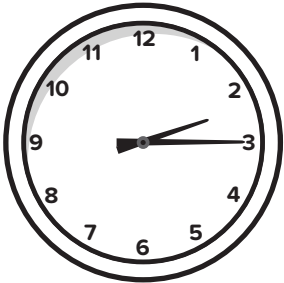
YDW I WEDI EI GURO?! .....



1

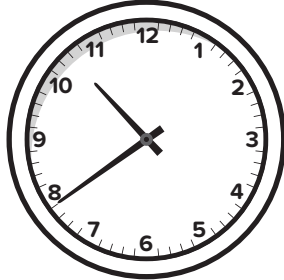
Sawl diwrnod sydd ym mis Chwefror? \_\_\_\_\_ dydd

2



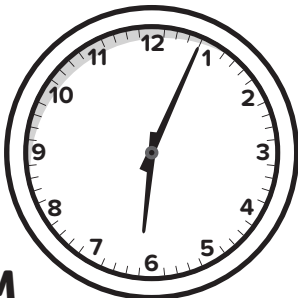
- 15 munud wedi 2  
 10 munud wedi 9  
 20 munud i 3

3



Ysgrifennwch yr amser  
ar y cloc digidol

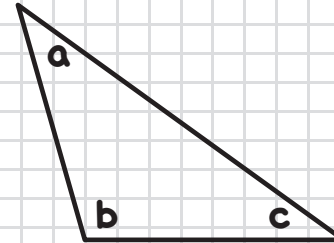
4



PM

Faint o'r gloch yw hi ar  
gloc 24 awr?

5



Pa ongl sy'n aflem?

6

Pa ffraksiwn sy'n  
hafal i 1?

$$\frac{4}{6} \quad \frac{15}{15} \quad \frac{3}{11}$$

7

$$\frac{1}{4} \circ 12 =$$

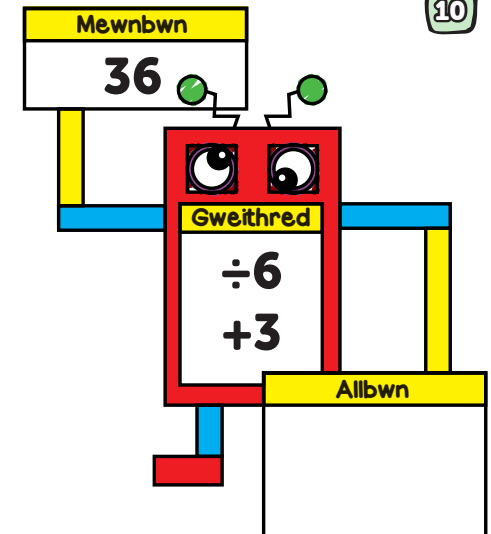
8

$$\frac{2}{3} \circ 21 =$$

9

$$2 + \frac{4}{8} + \frac{2}{8} =$$

10



FY SGÔR DDIWETHAF?! .....

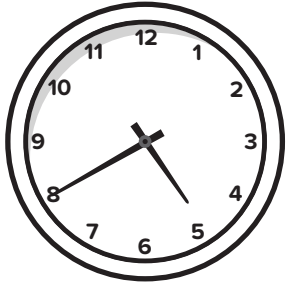
YDW I WEDI EI GURO?! .....



1

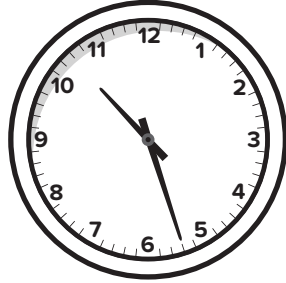
Sawl diwrnod sydd ym mis Ionawr? 31 ddyd

2



- 5 munud i 5
- 20 munud wedi 8
- 20 munud i 5

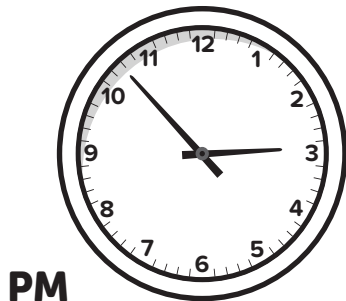
3



Ysgrifennwch yr amser ar y cloc digidol

**10:27**

4

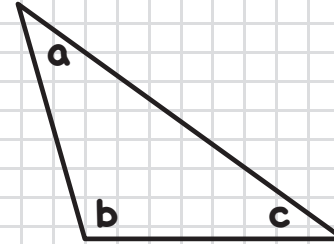


PM

Faint o'r gloch yw hi ar gloc 24 awr?

**14:53**

5



Pa ongl sy'n aflem?

b

6

Pa ffraksiwn sy'n hafal i 1?

$\frac{4}{5}$     $\frac{11}{11}$     $\frac{11}{10}$

7

$\frac{1}{4} \circ 24 =$

**6**

8

$\frac{3}{4} \circ 24 =$

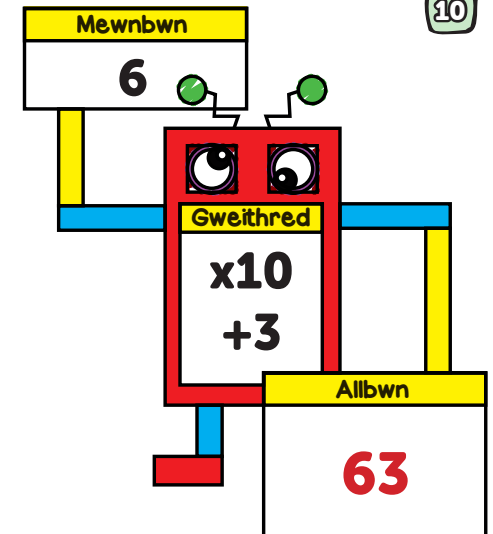
**18**

9

$\frac{3}{8} + 4 + \frac{2}{8} =$

**4  $\frac{5}{8}$**

10



FY SGÔR DDIWETHAF?!

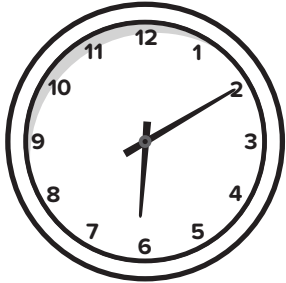
YDW I WEDI EI GURO?!



1

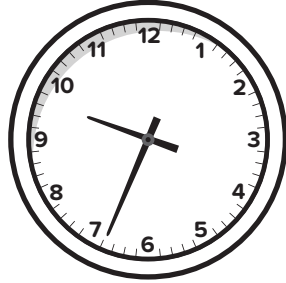
Sawl diwrnod sydd ym mis Mawrth? **31** ddyd

2



- 10 munud i 2
- 10 munud wedi 6
- 15 munud i 4

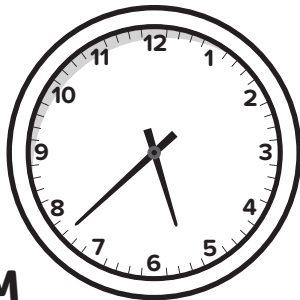
3



Ysgrifennwch yr amser ar y cloc digidol

**09:34**

4

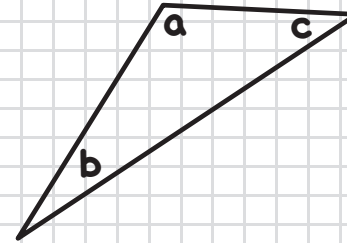


AM

Faint o'r gloch yw hi ar gloc 24 awr?

**05:38**

5



Pa ongl sy'n aflem?

**a**

6

Pa ffracsiwn sy'n hafal i 1?

$$\frac{6}{7}$$

$$\frac{5}{8}$$

$$\frac{9}{9}$$

7

$$\frac{1}{3} \circ 18 =$$

**6**

8

$$\frac{2}{3} \circ 21 =$$

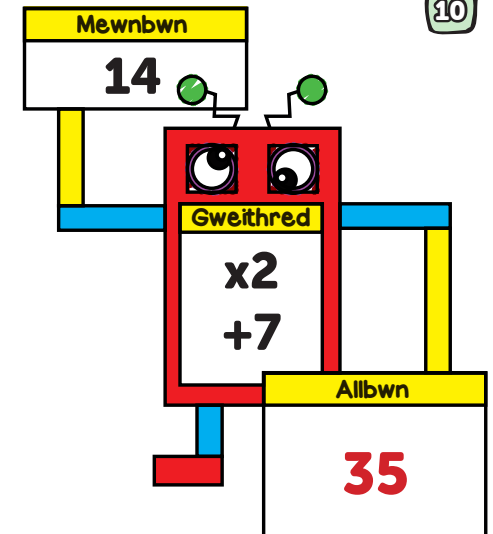
**14**

9

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

**2 \frac{5}{7}**

10



FY SGÔR DDIWETHAF?!

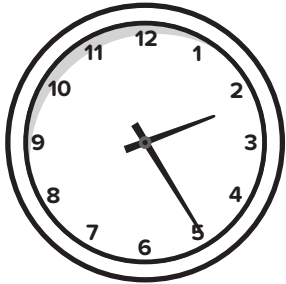
YDW I WEDI EI GURO?!



1

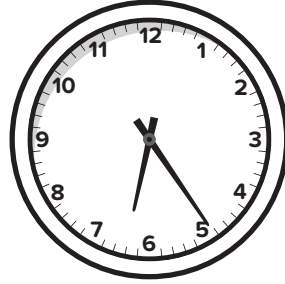
Sawl diwrnod sydd mewn Blwyddyn? 365 dydd

2



- 25 munud wedi 2
- 20 munud wedi 3
- 10 munud i 9

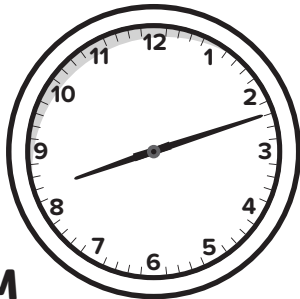
3



Ysgrifennwch yr amser ar y cloc digidol

**06:24**

4

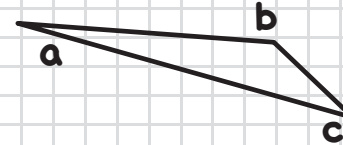


PM

Faint o'r gloch yw hi ar gloc 24 awr?

**20:12**

5



Pa ongl sy'n aflem?

**b**

6

Pa ffracsiwn sy'n hafal i 1?

$\frac{8}{8}$

$\frac{10}{12}$

$\frac{4}{11}$

7

$$\frac{1}{4} \circ 36 =$$

**9**

8

$$\frac{3}{4} \circ 32 =$$

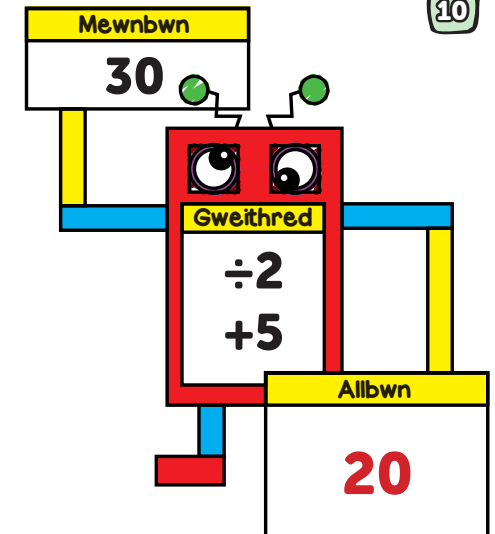
**24**

9

$$\frac{1}{9} + \frac{4}{9} + \frac{2}{9} =$$

**$\frac{7}{9}$**

10



FY SGÔR DDIWETHAF?!

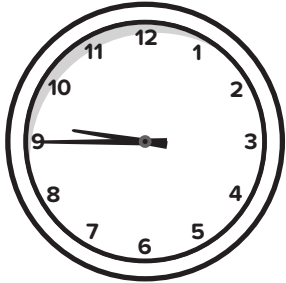
YDW I WEDI EI GURO?!



1

Sawl diwrnod sydd ym mis Medi? 30 dydd

2



- 15 munud i 6
- 15 munud wedi 9
- 15 munud i 10

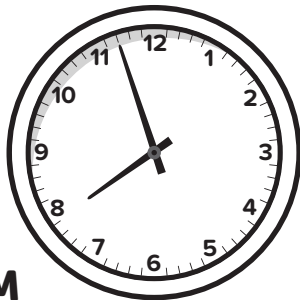
3



Ysgrifennwch yr amser ar y cloc digidol

**04:18**

4

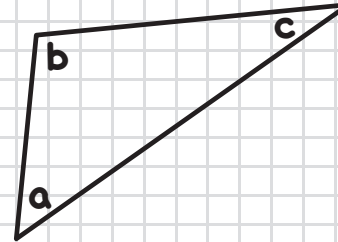


AM

Faint o'r gloch yw hi ar gloc 24 awr?

**07:57**

5



Pa ongl sy'n aflem?

b

6

Pa ffracsiwn sy'n hafal i 1?

$\frac{13}{15}$      $\frac{13}{13}$      $\frac{3}{9}$

7

$\frac{1}{3} \circ 12 =$

**4**

8

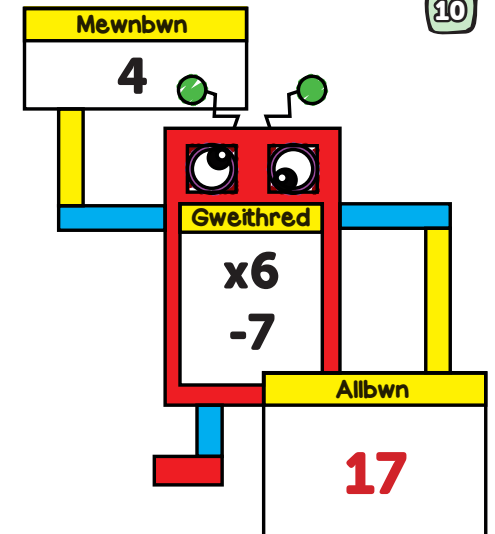
$\frac{2}{3} \circ 27 =$

**18**

9

$\frac{2}{9} + \frac{2}{9} + \frac{4}{9} =$   
 **$\frac{8}{9}$**

10



FY SGÔR DDIWETHAF?!

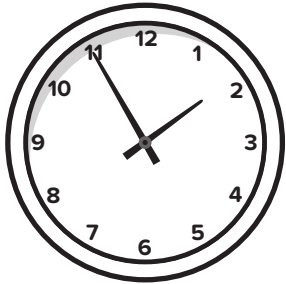
YDW I WEDI EI GURO?!



1

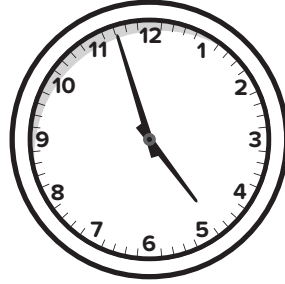
Sawl diwrnod sydd ym mis Mai? 31 dydd

2



- 20 munud i 7
- 10 munud wedi 3
- 5 munud i 2

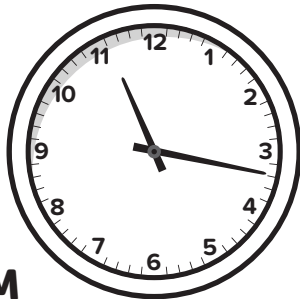
3



Ysgrifennwch yr amser ar y cloc digidol

**04:57**

4

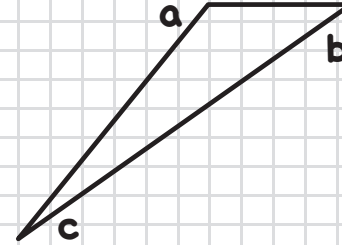


AM

Faint o'r gloch yw hi ar gloc 24 awr?

**11:17**

5



Pa ongl sy'n aflem?

a

6

Pa ffracsiwn sy'n hafal i 1?

$\frac{11}{17}$

$\frac{2}{6}$

$\frac{7}{7}$

7

$$\frac{1}{4} \circ 16 =$$

**4**

8

$$\frac{2}{4} \circ 12 =$$

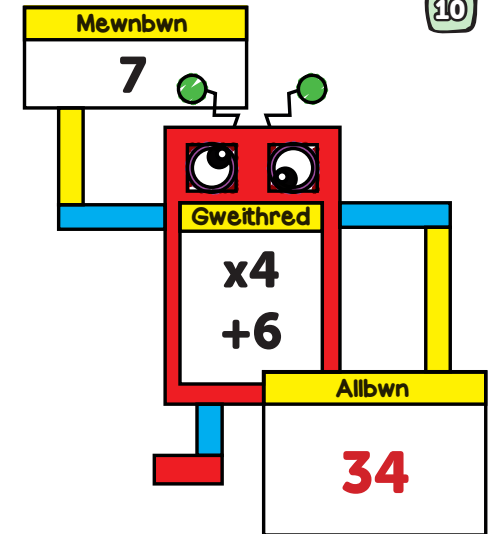
**6**

9

$$\frac{1}{5} + 4 + \frac{2}{5} =$$

**4  $\frac{3}{5}$**

10



FY SGÔR DDIWETHAF?!

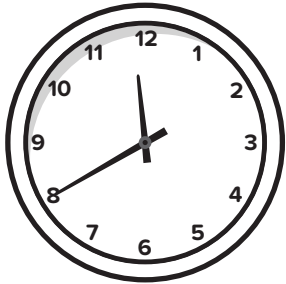
YDW I WEDI EI GURO?!



1

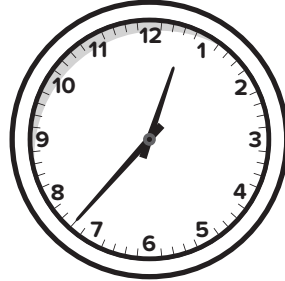
Sawl diwrnod sydd ym mis Mehefin? 30 dydd

2



- 20 munud i 7
- 20 munud wedi 3
- 20 munud i 12

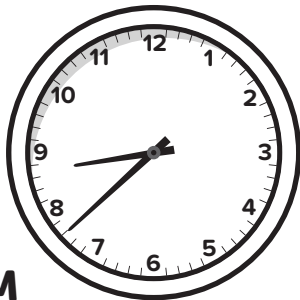
3



Ysgrifennwch yr amser ar y cloc digidol

**12:37**

4

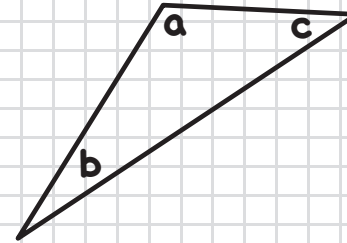


PM

Faint o'r gloch yw hi ar gloc 24 awr?

**20:38**

5



Pa ongl sy'n aflem?

a

6

Pa ffracsiwn sy'n hafal i 1?

$\frac{16}{16}$

$\frac{4}{5}$

$\frac{6}{8}$

7

$$\frac{1}{3} \times 9 =$$

**3**

8

$$\frac{2}{3} \times 15 =$$

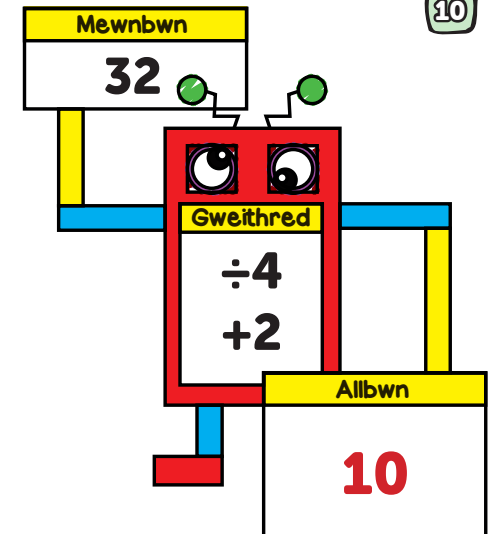
**10**

9

$$\frac{6}{7} - \frac{4}{7} - \frac{1}{7} =$$

$\frac{1}{7}$

10



FY SGÔR DDIWETHAF?!

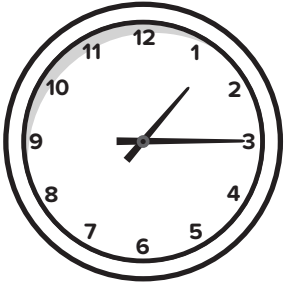
YDW I WEDI EI GURO?!



1

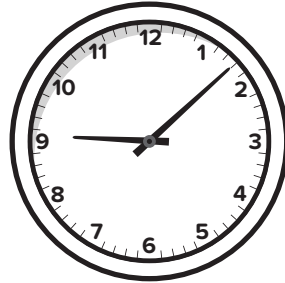
Sawl diwrnod mewn blwyddyn naid? 366 dydd

2



- 15 munud i 7
- 15 munud wedi 1
- 20 munud i 9

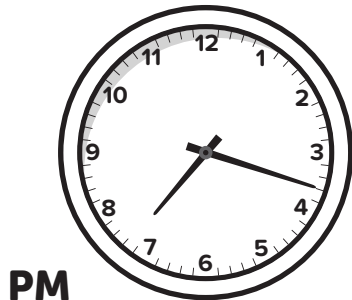
3



Ysgrifennwch yr amser ar y cloc digidol

**09:08**

4

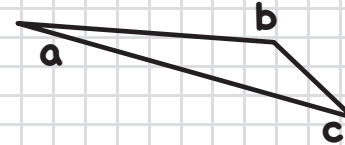


PM

Faint o'r gloch yw hi ar gloc 24 awr?

**19:18**

5



Pa ongl sy'n aflem?

**b**

6

Pa ffracsiwn sy'n hafal i 1?

$\frac{4}{9}$     $\frac{6}{6}$     $\frac{2}{12}$

7

$\frac{1}{4} \circ 20 =$

**5**

8

$\frac{3}{4} \circ 36 =$

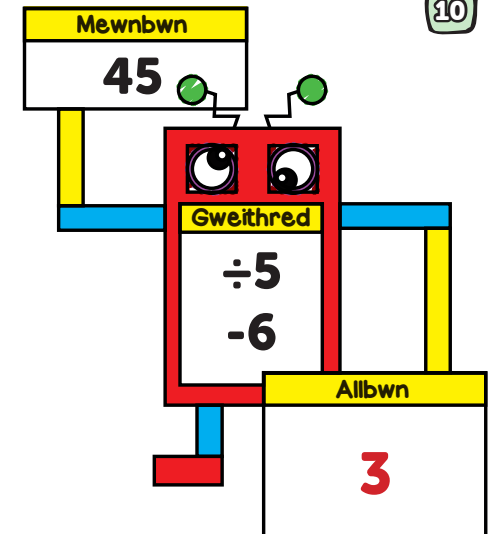
**27**

9

$\frac{2}{8} + \frac{2}{8} + \frac{1}{8} =$

**$\frac{5}{8}$**

10



FY SGÔR DDIWETHAF?!

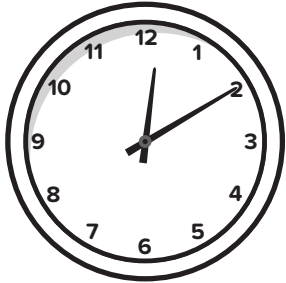
YDW I WEDI EI GURO?!



1

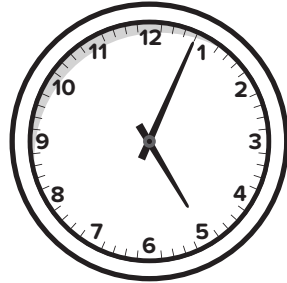
Sawl diwrnod sydd ym mis Hydref? 31 dydd

2



- 20 munud i 11
- 10 munud wedi 12
- 5 munud i 6

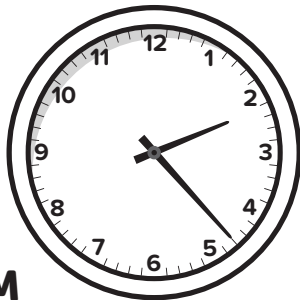
3



Ysgrifennwch yr amser ar y cloc digidol

**05:04**

4

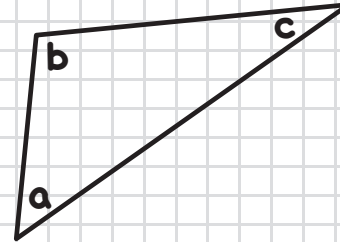


AM

Faint o'r gloch yw hi ar gloc 24 awr?

**02:23**

5



Pa ongl sy'n aflem?

b

6

Pa ffracsiwn sy'n hafal i 1?

$$\frac{3}{4}$$

$$\frac{3}{7}$$

$$\frac{8}{8}$$

7

$$\frac{1}{4} \circ 8 =$$

2

8

$$\frac{2}{3} \circ 18 =$$

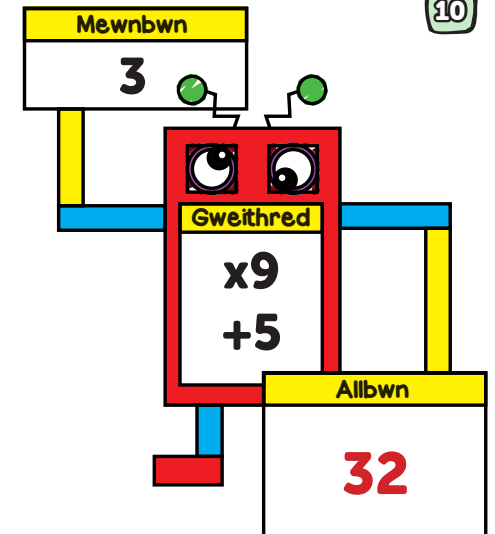
12

9

$$8 + \frac{4}{9} + \frac{2}{9} =$$

8  $\frac{6}{9}$

10



FY SGÔR DDIWETHAF?!

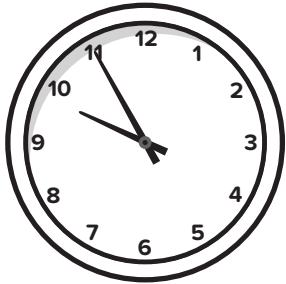
YDW I WEDI EI GURO?!



1

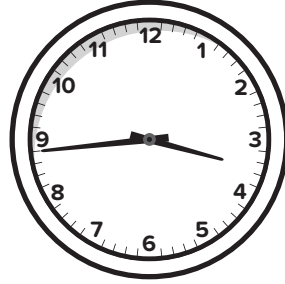
Sawl diwrnod sydd ym mis Ebrill? 30 dydd

2



- 10 munud i 6
- 10 munud wedi 5
- 5 munud i 10

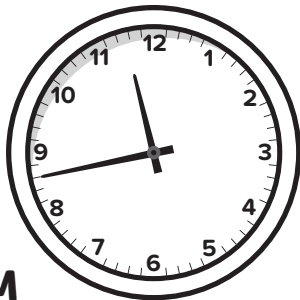
3



Ysgrifennwch yr amser ar y cloc digidol

**03:44**

4

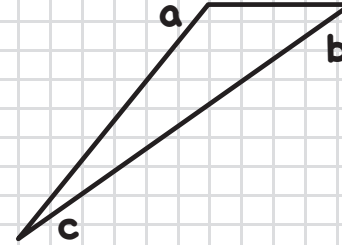


PM

Faint o'r gloch yw hi ar gloc 24 awr?

**23:43**

5



Pa ongl sy'n aflem?

a

6

Pa ffracsiwn sy'n hafal i 1?

**$\frac{12}{12}$**

$\frac{2}{9}$

$\frac{1}{5}$

7

$$\frac{1}{3} \circ 6 =$$

**2**

8

$$\frac{3}{4} \circ 32 =$$

**24**

9

$$\frac{2}{6} + \frac{1}{6} + \frac{2}{6} =$$

**$\frac{5}{6}$**

10



FY SGÔR DDIWETHAF?!

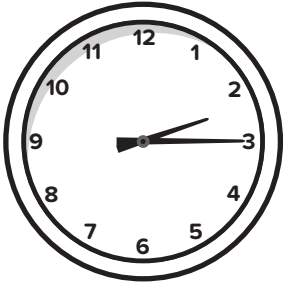
YDW I WEDI EI GURO?!



1

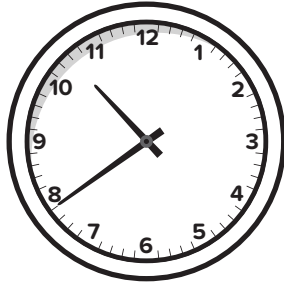
Sawl diwrnod sydd ym mis Chwefror? **28** dydd

2



- 15 munud wedi 2
- 10 munud wedi 9
- 20 munud i 3

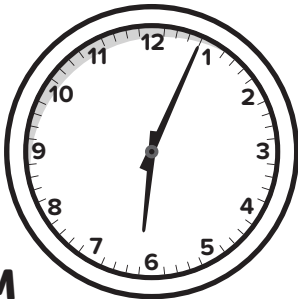
3



Ysgrifennwch yr amser ar y cloc digidol

**10:39**

4

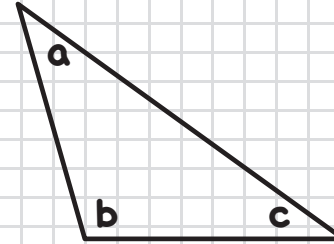


PM

Faint o'r gloch yw hi ar gloc 24 awr?

**18:04**

5



Pa ongl sy'n aflem?

**b**

6

Pa ffracsiwn sy'n hafal i 1?

$\frac{4}{6}$      **$\frac{15}{15}$**      $\frac{3}{11}$

7

$\frac{1}{4} \times 12 =$

**3**

8

$\frac{2}{3} \times 21 =$

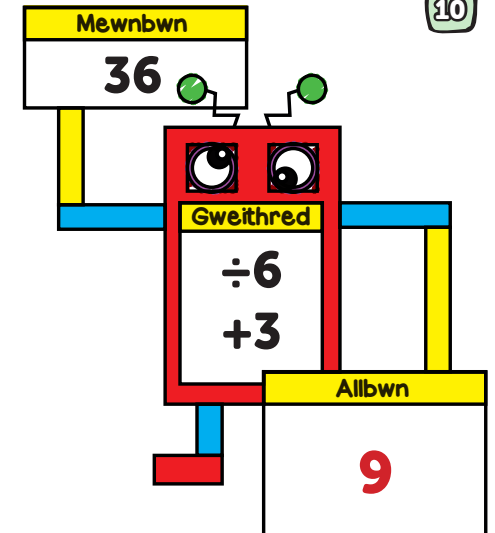
**14**

9

$2 + \frac{4}{8} + \frac{2}{8} =$

**2  $\frac{6}{8}$**

10



FY SGÔR DDIWETHAF?!

YDW I WEDI EI GURO?!

