

1) Accept a correct explanation that shows that the statement is correct, for example 1095 days is equal to 3 years whereas 37 months equals 3 years and I month. Therefore, Henry is older.
2) Accept a correct explanation which shows that Noah is incorrect, for example $13 / 4$ hours is equal
 to 105 minutes, not 145 minutes. The correct total is 388 minutes or 6 hours and 28 minutes.
3) 

a)

| Poppy | $£ 4.50$ |
| :---: | :---: |
| Liam | $£ 6$ |
| Lan | $£ 5$ |

b) $£ 69.75$


## Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are


These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.





Here are four films and their running times:

Dance School is 120 seconds longer than Ghost House.

Clowning Around
1 hour and
56 minutes

## Ghost

House
1 hour and 38 minutes


Is Sam correct? Explain your answer.
Reveal answer

Sam is correct. Ghost House is 98 minutes and Dance School is 100 minutes. This is a difference of 2 minutes, which is equal to $\mathbf{1 2 0}$ seconds.

Dance School 100 minutes


Ola is taking part in a sponsored silence for charity.
Three of Ola's friends agree to sponsor her for the following amounts:

a) How much will each friend give to Ola after 30 minutes of silence?

Ola is taking part in a sponsored silence for charity.
Three of Ola's friends agree to sponsor her for the following amounts:

b) How much money will Ola earn in total after 195 minutes of silence?

Calculating Angles on a Straight Line



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1) Convert the units of time.
2) Here are the ages of two children:

Henry is the eldest child.
Do you agree with this statement? Explain your answer.

2) Here are the durations of four different films

| Clowning Around | Dance School | Super Sonic | Ghost House |
| :---: | :---: | :---: | :---: |
| 1 hour and 33 minutes | 90 minutes | $1 \frac{3}{4}$ hours | 1 hour and 40 minutes |

a) Noah finds the total running time of all four films by converting all the times to minutes and using column addition.

Is Noah correct or incorrect? Explain your answer.
$\qquad$
$\qquad$
b) Write two true statements and one false statement about the durations
 of the films. Can your partner identify the incorrect statement?
$\qquad$
$\qquad$
$\qquad$

1) Oliver is taking part in a sponsored dance-a-thon for charity.

Three of Oliver's friends agree to sponsor him the following amounts:


Poppy
$£ 1.50$ for every 10 minutes


Liam
£1.00 for every 300 seconds

$£ 2.50$ for every quarter of an hour
a) How much will each friend give Oliver after 30 minutes of dancing?

| Poppy |  |
| :---: | :--- |
| Liam |  |
| Lan |  |


b) How much money will Oliver earn in total after 135 minutes of dancing?
c) Choose your own time that Oliver could have danced for and calculate how much money he would have raised for charity.


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