## Answers

Lesson 2

| Length | Weight | Capacity |
| :---: | :---: | :---: |
| Miles | Stones | Gallons |
| Feet | Pounds | Pints |
| Inches | Ounces | quarts |

Use the bar models to help with the conversions.

$16 \mathrm{in} \approx 40 \mathrm{~cm}$
$15 \mathrm{in} \approx 375 \mathrm{~cm}$
$33 \mathrm{in} \approx 0.825 \mathrm{~m}$


$$
\begin{aligned}
& 10 \mathrm{~cm} \approx 4 \mathrm{in} \\
& 1 \mathrm{~cm} \approx 9.4 \mathrm{in} \\
& 5.5 \mathrm{~m} \approx 220 \mathrm{in}
\end{aligned}
$$

| Inches | Cm | Inches | Cm |
| :---: | :---: | :---: | :---: |
| 0.4 | 1 | 40 | 100 |
| 1 | 2.5 | 50 | 125 |
| 4 | 10 | 100 | 250 |
| 5 | 12.5 |  |  |
| 6 | 15 |  |  |
| 10 | 25 |  |  |
| 15 | 37.5 |  |  |
| 20 | 50 |  |  |

There are 12 inches in 1 foot. Tommy is 4 feet 8 inches tall.
a) What is Tommy's height in inches?

b) Approximately, how tall is Tommy in centimetres?
$\square$

## Lesson 2 Activity answers

The perimeter of a regular pentagon is 20 inches.
What is the length of each side, in $\mathrm{cm} ? 10 \mathrm{~cm}$

$$
\begin{aligned}
20 \div 5= & 4 \text { inches (for each side) } \\
& 4 \text { inches } \approx 10 \mathrm{~cm}
\end{aligned}
$$

Phillips Idown jumped 16.5 m in the triple jump at the London Olympics last year. The winner jumped 18.3 m .

How much further did the winner jump in inches? 7 2inches
To find the difference: $18.3-16.5=1.8 \mathrm{~m}$ or 180 cm
$180 \mathrm{~cm} \approx 72$ inches
You could do this by partitioning 180 into

$$
100+50+10+10+10
$$

Compare this to your table to add the following inches:

$$
40+20+4+4+4
$$

(or you might have spotted you can $\div$ answer in cm by 2.5!)

James is 1.45 m tall, and Jodie is 60 inches.
How much taller is Jodie than James? Give your answer in cm ox inches 5 cm or 2 inches

$$
\begin{gathered}
60 \text { inches } \approx 150 \mathrm{~cm} \\
150-145=5 \text { (This is the difference in heights) } \\
5 \mathrm{~cm} \approx 2 \text { inches }
\end{gathered}
$$

3 pencils are laid in one long line on the table.
The first is 16 cm , the second 8 inches, and the third 14 cm . What is the total length of all 3 pencils, in inches? 20inches First you need to find the total length of pencils. Either make sure all your measurements are in cm or inches to add them tagether. I will choose cm (as then I anly need to make one conversion)

$$
\begin{gathered}
8 \text { inches } \approx 20 \mathrm{~cm} \\
16+20+14=50 \mathrm{~cm} \\
50 \mathrm{~cm} \approx 20 \text { inches }
\end{gathered}
$$

## Lesson 3



## True

Tommy is 4 foot 7 inches tall $\approx 140 \mathrm{~cm}$.
Alex is 135 cm tall.

Use this fact to complete the conversions.
a) $2 \mathrm{~kg}=4.4 \mathrm{lb}$
e) $10 \mathrm{~kg}=22 \mathrm{lb}$
b) $4 \mathrm{~kg}=8.8 \mathrm{lb}$
f) $24.2 \mathrm{lbs}=$

c) $5 \mathrm{~kg}=11 \mathrm{lb}$
g) 100 $\mathrm{kg} \approx 220 \mathrm{lb}$
d) $0.5 \mathrm{~kg}=$ $\square$ lb
h) $2,500 \mathrm{~g}=5.5$

Use this fact to complete the conversions.
a) 2 pints $=1,136$ ml e)
$2.84 \quad \mathrm{I}=5$ pints
b) 4 pints $=2,272$ ml
f) $56.8 \mathrm{ml}=$ $\square$ pints
c) 5 pints $=2,840$ ml
g)
 pints $=56.8 \mathrm{I}$
d)

h) 20 pints $=11.36$

Jack's house has 3 pints of milk delivered 4 times a week.
How many litres of milk does Jack have delivered each week?


He uses about 200 ml of milk every day in his cereal. Approximately, how many pints of milk does Jack use for his cereal in a week?

12 pints is approximately
6,816 millilitres, or 6.8 litres.

```
200\times7=
1,400 ml
1400 \div568=
2.46 pints
So Jack uses approximately 2 and a half pints.
```


## Lesson 3 activity answers

A dog weighs 25 kg .

a) Approximately, what is the weight of the dog in pounds?

$$
55 \mathrm{lb}
$$

The capacity of a barrel is 11.36 I .
a) Approximately, what is the capacity of the barrel in pints?

b) There are 14 pounds in a stone.

Approximately, what is the weight of the dog in stones and pounds?

## b) There are 8 pints in a gallon.

Approximately, what is the capacity of the barrel in gallons?


A set of scales is balanced.


What is the weight of the box? Give your answer in pounds.

$$
8.6 \mathrm{lb}
$$

A milkman delivers 50 pints of milk a day.
How many litres of milk does he deliver in a full week?

## Lesson 4

How many months / weeks / days are there in a year?
12/52/365 (or 366 in a leap year)
How many hours / minutes/seconds are there in a day?
$24 / 24 \times 60$ ox $1440 / 1440 \times 60$ or 86,400
Can 21 days be written in weeks? Can 25 days be written in weeks? Explain your answers.
Yes - 3 weeks as 7 days in a week of $21 \div 7=3$; however $25 \div 3=3$ remainder 4
Is 0.75 hours the same as 75 minutes? Why or why not?
No. 0.75 is the same as $3 / 4$. I hour is 60 minutes and $3 / 4$ of 60 is 45 , so 0.75 of 1 hour is 45 minutes

Use the numbers to complete the statements.

a) There are 7 days in a week.
b) There are 24 hours in a day.
c) There are 60 minutes in an hour.
d) There are 52 weeks in a year.
e) There are 12 months in a year.
f) There are 60 seconds in a minute.

## Three children are running a race.



Ron and Eva have known each other for 103 days.
For how many weeks and days have they known each other?


Lesson 5

## False

Eva's next bus will be in 5 minutes so she will arrive at the library at 15:00

| Wood Lane | $14: 35$ | $14: 50$ |
| :---: | :---: | :---: |
| School | $14: 45$ | $15: 00$ |
| High Street | $14: 50$ | $15: 05$ |
| Post Office | $14: 57$ | $15: 12$ |
| Library | $15: 00$ | $15: 15$ |
| Station | $15: 05$ | $15: 20$ |



Here is a bus timetable.

|  |  |  |  |
| :--- | :---: | :---: | :---: |
|  | Bus A | Bus B | Bus C |
| Green Park Road | $08: 45$ | $09: 00$ | $09: 15$ |
| Forrest Drive | $09: 05$ | $09: 20$ | $09: 35$ |
| Summerville Street | $09: 22$ | $09: 37$ | $09: 52$ |
| Penny Bridge | $09: 40$ | $09: 55$ |  |

a) What time does Bus A arrive at Green Park Road? $\square$
$08: 45$
b) What time does Bus B arrive at Summerville Street?
c) What time does Bus C arrive at Forrest Drive?
d) Each bus takes the same amount of time to get from Green Park Road to Penny Bridge.

What time does Bus C arrive at Penny Bridge?
$\square$
10:10

| 12-hour clock | 24-hour clock |
| :--- | :--- |
| 6.45 am | $06: 45$ |
| 11.00 pm | $23: 00$ |
| 12.01 pm | $12: 01$ |
| 1.03 am | $01: 03$ |
| 3.14 pm | $15: 14$ |

) Here is an extract from a TV guide.

a) At what times is the news on?

b) What time does Detective Files start?
c) How long is Wilson Street on for? $\qquad$ how

Here is part of a train timetable.

|  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| St Pancras | $06: 25$ | $06: 40$ | $06: 55$ | $07: 05$ | $07: 22$ |  |
| Stratford | $06: 32$ | $06: 47$ | $07: 02$ | $07: 12$ | $07: 29$ |  |
| Ebbsfleet | $06: 43$ | $06: 59$ | $07: 15$ | $07: 23$ | $07: 40$ |  |
| Ashford | - | $07: 19$ | - | $07: 42$ | - |  |
| Gravesend | $06: 47$ | - | $07: 18$ | - | $07: 43$ |  |

a) How many of the trains go all the way from St Pancras to Gravesend?

b) How long does the 06:40 take to get from St Pancras to Ashford?

c) Which train takes the least amount of time to get from St Pancreas to Gravesend?

