











## Maths Answers - Summer Year 5

## Week 3:

Using known facts to help with divisions

| $20 \times 6=\mathbf{1 2 0}$ | $30 \times 6=\mathbf{1 8 0}$ | $40 \times 6=\mathbf{2 4 0}$ |
| :--- | :--- | :--- |
| $20 \times 7=\mathbf{1 4 0}$ | $30 \times 7=\mathbf{2 1 0}$ | $40 \times 7=\mathbf{2 8 0}$ |
| $20 \times 8=\mathbf{1 6 0}$ | $30 \times 8=\mathbf{2 4 0}$ | $40 \times 8=\mathbf{3 2 0}$ |

1. $129 \div 6=213 / 6$ or $\mathbf{2 1} \mathbf{1 / 2}$
2. $147 \div 7=21$
3. $164 \div 8=204 / 8$ or $201 / 2$
4. $122 \div 6=202 / 6$ or $201 / 3$
5. $162 \div 8=202 / 8$ or $201 / 4$
6. $166 \div 8=206 / 8$ or $\mathbf{2 0 ~ 3 / 4 ~}$
7. $183 \div 6=303 / 6$ or $301 / 2$
8. $224 \div 7=32$
9. $244 \div 8=304 / 8$ or $\mathbf{3 0 1 / 2}$
10. $255 \div 6=42 \mathbf{3 / 6}$ or $42 \mathbf{1 / 2}$
11. $287 \div 7=41$
12. $332 \div 8=\mathbf{4 1} \mathbf{4 / 8}$ or $\mathbf{4 1} \mathbf{1 / 2}$

Using known facts to help with divisions (E)

| $10 \times 6=\mathbf{6 0}$ | $20 \times 6=\mathbf{1 2 0}$ | $30 \times 6=\mathbf{1 8 0}$ |
| :--- | :--- | :--- |
| $10 \times 7=\mathbf{7 0}$ | $20 \times 7=\mathbf{1 4 0}$ | $30 \times 7=\mathbf{2 1 0}$ |
| $10 \times 8=\mathbf{8 0}$ | $20 \times 8=\mathbf{1 6 0}$ | $30 \times 8=\mathbf{2 4 0}$ |

1. $69 \div 6=11 \mathbf{3 / 6}$ or $11 \mathbf{1 / 2}$
2. $129 \div 6=213 / 6$ or $\mathbf{2 1} \mathbf{1 / 2}$
3. $77 \div 7=11$
4. $147 \div 7=21$
5. $88 \div 8=11$
6. $164 \div 8=204 / 8$ or $201 / 2$
7. $122 \div 6=202 / 6$ or $201 / 3$
8. $162 \div 8=202 / 8$ or $201 / 4$
9. $145 \div 6=\mathbf{2 4} 1 / 6$
10. $183 \div 6=\mathbf{3 0} \mathbf{3 / 6}$ or $\mathbf{3 0 1 / 2}$

Using known facts to help with divisions ( H )

| $20 \times 6=\mathbf{1 2 0}$ | $30 \times 6=\mathbf{1 8 0}$ | $40 \times 6=\mathbf{2 4 0}$ |
| :--- | :--- | :--- |
| $20 \times 7=\mathbf{1 4 0}$ | $30 \times 7=\mathbf{2 1 0}$ | $40 \times 7=\mathbf{2 8 0}$ |
| $20 \times 8=\mathbf{1 6 0}$ | $30 \times 8=\mathbf{2 4 0}$ | $40 \times 8=\mathbf{3 2 0}$ |

1. $135 \div 6=223 / 6$ or $22 \mathbf{1 / 2}$
2. $154 \div 7=22$
3. $172 \div 8=214 / 8$ or $211 / 2$
4. $128 \div 6=212 / 6$ or $211 / 3$
5. $170 \div 8=212 / 8$ or $211 / 4$
6. $174 \div 8=216 / 8$ or $213 / 4$
7. $195 \div 6=32 \mathbf{3 / 6}$ or $32 \mathbf{1 / 2}$
8. $238 \div 7=34$
9. $270 \div 8=336 / 8$ or $333 / 4$
10. $261 \div 6=433 / 6$ or $431 / 2$
11. $294 \div 7=42$
12. $332 \div 8=414 / 8$ or 41 1/2

Multiplication and division word problems (M)

1. $49 \times 20=980 \quad$ The tea shop has 980 tea bags.
2. $92 \div 8=114 / 8$
3. $32 \times 20 p=640$ p or $\mathbf{£ 6 . 4 0}$
4. $154 \div 7=22$
5. $£ 75 \div 6=£ 12.50$
6. $38 \times 15=570$
7. $217 \div 7=31$
8. $26 \times 5 \mathrm{~min}=130 \mathrm{~min}$

The tea shop has $111 / 2$ cakes left.
The children have brought in $£ \mathbf{6 . 4 0}$ altogether.
There are $\mathbf{2 2}$ weeks in 154 days.
The meal cost $\mathbf{£ 1 2 . 5 0}$ per person.
The driver drives $\mathbf{5 7 0}$ miles in a day.
There are 31 children in each class.
It will take the runner $\mathbf{2}$ hours and 10 minutes.

## Multiplication and division word problems (E)

1. $23 \times 20=460 \quad$ The tea shop has 460 tea bags.
$2.84 \div 8=104 / 8 \quad$ The tea shop has $101 / 2$ cakes left.
2. $16 \times 20$ p $=320$ p or $£ \mathbf{3 . 2 0}$ The children have brought in $£ \mathbf{3 . 2 0}$ altogether.
3. $91 \div 7=13$
4. $£ 63 \div 6=£ 10.50$

There are 13 weeks in 91 days.
6. $17 \times 20=340$

The meal cost $\mathbf{£ 1 0 . 5 0}$ per person.
7. $147 \div 7=21$

The driver drives $\mathbf{3 4 0}$ miles in a day.
8. $14 \times 5 \mathrm{~min}=70 \mathrm{~min}$

There are $\mathbf{2 1}$ children in each class.
It will take the runner 1 hour and 10 minutes.

## Multiplication and division word problems (H)

1. $59 \times 20=1180 \quad$ The tea shop has 1180 tea bags.
$2.90 \div 8=112 / 8 \quad$ The tea shop has $111 / 4$ cakes left.
2. $37 \times 20 p=740$ p or $£ 7.40$ The children have brought in $£ 7.40$ altogether.
3. $224 \div 7=32$
4. $£ 81 \div 6=£ 13.50$
5. $32 \times 19=608$
6. $203 \div 7=29$
7. $27 \times 5 \mathrm{~min}=135 \mathrm{~min}$

There are 32 weeks in 224 days.
The meal cost $\mathbf{£ 1 3 . 5 0}$ per person.
The driver drives 608 miles in a day.
There are $\mathbf{2 9}$ children in each class.
It will take the runner $\mathbf{2}$ hours and 15 minutes.

## Percentages

$$
\begin{aligned}
& 20 \%=0.2=1 / 5 \\
& 3 \%=0.03=3 / 100 \\
& 10 \%=0.1=1 / 10 \\
& 50 \%=0.5=1 / 2 \\
& 25 \%=0.25=1 / 4 \\
& 75 \%=0.75=3 / 4 \\
& 99 \%=0.99=99 / 100 \\
& 15 \%=0.15=3 / 20 \\
& 46 \%=0.46=23 / 50 \\
& 80 \%=0.8=4 / 5
\end{aligned}
$$

## Equivalent percentages (E)

| Children were asked to vote for cycling, swimming or football as their favourite weekend activity |  |
| :---: | :---: |
| Fraction | Percentage |
| $1 / 2$ children prefer swimming | 50\% |
| $1 / 4$ of children prefer cycling | 25\% |
| The rest prefer football | 25\% |

Children were asked to vote for oranges, bananas or apples as their favourite fruit

| Fraction | Percentage |
| :--- | :--- |
| $4 / 10$ children prefer bananas | $\mathbf{4 0 \%}$ |
| $3 / 10$ of children prefer apples | $\mathbf{3 0 \%}$ |
| The rest prefer oranges | $\mathbf{3 0 \%}$ |

Children were asked to vote for dogs, cats or rabbits as their ideal pet

| Fraction | Percentage |
| :--- | :--- |
| $1 / 2$ prefer dogs | $\mathbf{5 0 \%}$ |
| $3 / 10$ prefer cats | $\mathbf{3 0 \%}$ |
| The rest prefer rabbits | $\mathbf{2 0 \%}$ |

Equivalent percentages (M)

| Children were asked to vote for cycling, swimming or football as their favourite weekend activity |  |
| :---: | :---: |
| Fraction | Percentage |
| $1 / 2$ children prefer swimming | 50\% |
| 3/10 of children prefer cycling | 30\% |
| The rest prefer football | 20\% |

Children were asked to vote for oranges, bananas or apples as their favourite fruit

| Fraction | Percentage |
| :--- | :--- |
| $2 / 5$ children prefer bananas | $\mathbf{4 0 \%}$ |
| $3 / 10$ of children prefer apples | $\mathbf{3 0 \%}$ |
| The rest prefer oranges | $\mathbf{3 0 \%}$ |

Children were asked to vote for dogs, cats or rabbits as their ideal pet

| Fraction | Percentage |
| :--- | :--- |
| $1 / 2$ prefer dogs | $\mathbf{5 0 \%}$ |
| $1 / 5$ prefer cats | $\mathbf{2 0 \%}$ |
| The rest prefer rabbits | $\mathbf{3 0 \%}$ |

## Comparing percentages (E)

Burley Common has:
50 oak, 20 ash, 15 beech and 15 willow.
Merttens Meadow has:
60 oak, $\mathbf{6 0}$ hazel, $\mathbf{1 2 0}$ willow and $\mathbf{6 0}$ beech.
Chidgey Common has:
80 oak, 60 beech, 20 ash and 40 sweet chestnut.

Holes Hollow has:
50 oak, 20 hazel, 40 willow, 30 beech and 60 ash.

## Comparing percentages ( M )

Burley Common has:
50 oak, 20 ash, 15 beech and 15 willow.
Merttens Meadow has:
30 oak, $\mathbf{3 0}$ hazel, 60 willow and 30 beech.
Chidgey Common has:
80 oak, 60 beech, 20 ash and 40 sweet chestnut.

Holes Hollow has:
30 oak, 12 hazel, 18 willow, 36 beech and 24 ash.

