

## twinkl

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## Christmas Maths Mosaic

## Multiplication $3 \times 4 \times$ and $8 \times$ Tables

Solve the calculations to reveal the hidden picture. Each answer has a special colour.
$0-10=$ green
11-20 = black
21-30 = red
31-40 = brown
41-70 = blue
71 < = white

| $7 \times 8$ | $8 \times 1$ | $11 \times 4$ | $12 \times 4$ | $6 \times 8$ | $11 \times 4$ | $7 \times 8$ | $4 \times 0$ | $4 \times 11$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $4 \times 12$ | $0 \times 3$ | $8 \times 1$ | $12 \times 4$ | $8 \times 7$ | $8 \times 6$ | $0 \times 8$ | $3 \times 3$ | $4 \times 12$ |
| $4 \times 12$ | $6 \times 8$ | $3 \times 2$ | $3 \times 8$ | $4 \times 12$ | $3 \times 7$ | $4 \times 2$ | $12 \times 4$ | $8 \times 6$ |
| $11 \times 4$ | $4 \times 12$ | $8 \times 10$ | $9 \times 8$ | $4 \times 6$ | $8 \times 11$ | $8 \times 12$ | $4 \times 11$ | $12 \times 4$ |
| $6 \times 8$ | $11 \times 8$ | $10 \times 8$ | $8 \times 12$ | $9 \times 8$ | $10 \times 8$ | $8 \times 10$ | $8 \times 11$ | $7 \times 8$ |
| $10 \times 8$ | $8 \times 4$ | $8 \times 9$ | $11 \times 3$ | $8 \times 11$ | $8 \times 5$ | $9 \times 8$ | $5 \times 3$ | $8 \times 12$ |
| $8 \times 5$ | $10 \times 4$ | $8 \times 11$ | $4 \times 9$ | $8 \times 10$ | $4 \times 4$ | $8 \times 5$ | $8 \times 4$ | $9 \times 8$ |
| $4 \times 9$ | $8 \times 2$ | $3 \times 11$ | $4 \times 8$ | $12 \times 8$ | $8 \times 4$ | $4 \times 9$ | $3 \times 11$ | $4 \times 10$ |
| $3 \times 12$ | $8 \times 4$ | $4 \times 9$ | $3 \times 11$ | $3 \times 4$ | $4 \times 10$ | $5 \times 8$ | $3 \times 11$ | $8 \times 5$ |
| $2 \times 8$ | $8 \times 5$ | $9 \times 4$ | $8 \times 4$ | $4 \times 10$ | $12 \times 3$ | $4 \times 9$ | $5 \times 4$ | $4 \times 10$ |

Challenge: Which of these calculations has the greatest answer?

$$
5 \times 3 \quad 10 \times 3 \quad 8 \times 7 \quad 4 \times 6 \quad 12 \times 4
$$

## Twelve Days of Christmas

On the first day of Christmas my true love sent to me:
a partridge in a pear tree
On the second day of Christmas my true love sent to me: 2 turtle doves and a partridge in a pear tree


Twelve drummers drumming Eleven pipers piping Ten lords a-leaping Nine ladies dancing Eight maids a-milking
Seven swans a-swimming
Six geese a-laying
Five gold rings
Four calling birds
Three French hens
Two turtle doves
And a partridge in a pear tree.

1. By the second day of Christmas, you have 2 turtle doves and 2 partridges. How many turtle doves do you have altogether on the fifth day of Christmas?
2. How many partridges do you have by the sixth day of Christmas?
3. How many gold rings do you have by the sixth day of Christmas?
4. How many swans do you have by the tenth day of Christmas?
5. How many French hens do you have by the ninth day of Christmas?
6. How many birds in total do you have by the fifth day of Christmas?
7. How many maids-a-milking do you have by the eleventh day of Christmas?
8. How many French hens and calling birds do you have in total by the seventh day of Christmas?
9. How many instruments in total?
10. How many birds in total?
11. How many humans in total?
12. If the drummers and pipers were all male, how many males in total?
13. How many females in total?
14. How many individual items all together by the end of the twelfth day of Christmas?

## Christmas Code Breaker

| $\mathbf{a}$ | $\mathbf{b}$ | $\mathbf{c}$ | $\mathbf{d}$ | $\mathbf{e}$ | $\mathbf{f}$ | $\mathbf{g}$ | $\mathbf{h}$ | $\mathbf{i}$ | $\mathbf{j}$ | $\mathbf{k}$ | $\mathbf{l}$ | $\mathbf{m}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 4 | 6 | 8 | 10 | 12 | 15 | 18 | 21 | 24 | 27 | 28 | 30 |


| $\mathbf{n}$ | $\mathbf{o}$ | $\mathbf{p}$ | $\mathbf{q}$ | $\mathbf{r}$ | $\mathbf{s}$ | $\mathbf{t}$ | $\mathbf{u}$ | $\mathbf{v}$ | $\mathbf{w}$ | $\mathbf{x}$ | $\mathbf{y}$ | $\mathbf{z}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 32 | 33 | 36 | 40 | 48 | 56 | 64 | 72 | 75 | 80 | 88 | 96 | 100 |


|  | Answer | Letter |
| :---: | :---: | :---: |
| $2 \times 3$ |  |  |
| $16 \div 8$ |  |  |
| $7 \times 4$ |  |  |
| $125-115$ |  |  |
| $256-224$ |  |  |
| $32 \div 4$ |  |  |
| $201-199$ |  |  |
| $12 \times 4$ |  |  |


|  | Answer | Letter |
| :---: | :---: | :---: |
| $24 \div 4$ |  |  |
| $16 \div 8$ |  |  |
| $102-70$ |  |  |
| $2 \times 4$ |  |  |
| $169-141$ |  |  |
| $30 \div 3$ |  |  |


| $18 \div 3$ |  |  |
| :---: | :--- | :--- |
| $6 \times 8$ |  |  |
| $100-67$ |  |  |
| $500-420$ |  |  |
| $4 \times 8$ |  |  |


| $56+24$ |  |  |
| :---: | :--- | :--- |
| $199-151$ |  |  |
| $40 \div 4$ |  |  |
| $730-728$ |  |  |
| $8 \times 8$ |  |  |
| $6 \times 3$ |  |  |


| $7 \times 4$ |  |  |
| :---: | :--- | :--- |
| $9+5+7$ |  |  |
| $139-124$ |  |  |
| $8+7+3$ |  |  |
| $8 \times 8$ |  |  |


| $97-61$ |  |  |
| :---: | :--- | :--- |
| $10+38$ |  |  |
| $80 \div 8$ |  |  |
| $12 \times 3$ |  |  |
| $8 \div 4$ |  |  |
| $198-150$ |  |  |
| $80 \div 8$ |  |  |

## Think and Write: Frosty the Snowman



Sentence 1: Include an expanded noun phrase.

Sentence 2: Include the co-ordinating conjunction but.

Sentence 3: Include a possessive apostrophe.

Sentence 4: Include the personal pronoun 'he'.

Sentence 5: Write a question sentence.

## Festive Families

These fun festive stockings are all hung in a row but into which stocking do these presents go? Look at the root words on the stockings below and then match all the presents to where they must go.


Can you think of another root word and four words which belong in its family?


## Santa's Slip Up

Santa unloaded the presents from his sleigh but he can't remember which present belonged to which household. Can you help him to deliver them by drawing lines to match the root words to the correct prefix?


Write three Christmas themed sentences below which each contain two words beginning with the prefixes il-, im- or ir-.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Let's Liven Things Up

These dull adjectives make the trees look so boring that they've almost ruined Christmas! Can you think of four new adjectives for each word which mean the same thing but are far more exciting? Write one adjective on each bauble to decorate the tree and make your writing look wonderful.


Pick your favourite adjective from each section and write one sentence containing each below.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Wondrous Word Search


## Unscramble the Lyrics

Can you unsramble the words on the baubles below and hang them back into these classic Christmas tunes?


Unscramble the Lyrics


## Christmas Light Hanger



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## Mindfulness Colouring Paper Chain




## Snowman Pops Recipe



## Ingredients

6 wooden skewers
12 round sandwich biscuits (with a cream centre)
24 round sandwich biscuits (with a jam centre)
1 kg white chocolate
Chocolate sticks
50 g chocolate chips
300g icing sugar
Black food colouring
Orange food colouring

Each snowman is made from two jam-centred biscuits and one cream-centred biscuit.


## Snowman Pops Recipe

## Method

1. Take a wooden skewer and carefully push it through the middle of a jam-centred biscuit between the biscuit parts. Add a second jam-filled sandwich biscuit, in the same way.
2. Add a smaller, cream-filled biscuit to the top of the skewer in the same way to make the snowman's head.
3. Repeat with the remaining biscuits until you have all six skewers filled with three biscuits each, a small one at the top and two larger ones at the bottom.
4. Place the skewers in the fridge for 30 mins.
5. Break the white chocolate into chunks and put it into a large, heatproof bowl. Ask an adult to help you put the bowl over a simmering pan of water.

Safety Tip: Make sure the bowl doesn't touch the water.
6. Stir the chocolate as it melts. Ask an adult to pour the melted chocolate into a jar and leave it to cool down slightly.
7. Take each of the biscuit skewers and carefully dip them into the jar of white chocolate. The chocolate should completely cover all three biscuits on the skewer.
8. Place each skewer on a baking sheet and press the chocolate sticks into the side of each snowman to make the arms.
9. Then, use the chocolate chips to make the eyes and the buttons down the front of each snowman.
10. Place the baking sheet in the fridge to allow the chocolate to set.
11. Put the icing sugar in a bowl and add 2 teaspoons of water. Stir it well to make it smooth and thick (you might need to add a little more water).
12. Pour half of the icing into a seperate bowl. Add a few drops of black food colouring and mix well.
13. Put a few drops of orange food colouring into the other half of the icing and mix well.
14. Use a clean paintbrush to dab dots of black icing on each snowman to make a mouth.
15. Finally, use orange icing and a clean paintbrush to add a carrot shaped nose to each snowman.

## Christmas Elf Names Word Search

$b \quad b i n p \vee m e r r y m$ $u e n u t m e g f g r p$ $d \quad l e b o c v i h j x y c$ $d \vee l v x \quad n \quad m \quad q \quad h \quad x$ y ic w g a j b t z tc i sc j f $n$ l hi ri b $f$ jo re b j i n $k$ n m o h y j t e om km s l y a w x z r l pe dem d $k \quad k \quad s \quad q \quad r \quad l \quad u \quad r \quad r \quad l \quad d$ $j \quad c a \operatorname{n} d y y i d v e d$ f z b z l co o $\quad$ ki $e$ l

| Cranberry | Jolly |
| :---: | :---: |
| Tinsel | Merry |
| Cookie | Candy |
| Buddy | Nutmeg |




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## Christmas Maths Mosaic

Multiplication $3 \times 4 \times$ and $8 \times$ Tables
Solve the calculations to reveal the hidden picture. Each answer has a special colour.
$0-10=$ green
11-20 = black
21-30 = red
$31-40=$ brown
41-70=blue
$71<=$ white

| $7 \times 8$ | $8 \times 1$ | $11 \times 4$ | $12 \times 4$ | $6 \times 8$ | $11 \times 4$ | $7 \times 8$ | $4 \times 0$ | $4 \times 11$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $4 \times 12$ | $0 \times 3$ | $8 \times 1$ | $12 \times 4$ | $8 \times 7$ | $8 \times 6$ | $0 \times 8$ | $3 \times 3$ | $4 \times 12$ |
| $4 \times 12$ | $6 \times 8$ | $3 \times 2$ | $3 \times 8$ | $4 \times 12$ | $3 \times 7$ | $4 \times 2$ | $12 \times 4$ | $8 \times 6$ |
| $11 \times 4$ | $4 \times 12$ | $8 \times 10$ | $9 \times 8$ | $4 \times 6$ | $8 \times 11$ | $8 \times 12$ | $4 \times 11$ | $12 \times 4$ |
| $6 \times 8$ | $11 \times 8$ | $10 \times 8$ | $8 \times 12$ | $9 \times 8$ | $10 \times 8$ | $8 \times 10$ | $8 \times 11$ | $7 \times 8$ |
| $10 \times 8$ | $8 \times 4$ | $8 \times 9$ | $11 \times 3$ | $8 \times 11$ | $8 \times 5$ | $9 \times 8$ | $5 \times 3$ | $8 \times 12$ |
| $8 \times 5$ | $10 \times 4$ | $8 \times 11$ | $4 \times 9$ | $8 \times 10$ | $4 \times 4$ | $8 \times 5$ | $8 \times 4$ | $9 \times 8$ |
| $4 \times 9$ | $8 \times 2$ | $3 \times 11$ | $4 \times 8$ | $12 \times 8$ | $8 \times 4$ | $4 \times 9$ | $3 \times 11$ | $4 \times 10$ |
| $3 \times 12$ | $8 \times 4$ | $4 \times 9$ | $3 \times 11$ | $3 \times 4$ | $4 \times 10$ | $5 \times 8$ | $3 \times 11$ | $8 \times 5$ |
| $2 \times 8$ | $8 \times 5$ | $9 \times 4$ | $8 \times 4$ | $4 \times 10$ | $12 \times 3$ | $4 \times 9$ | $5 \times 4$ | $4 \times 10$ |
| 4 |  |  |  |  |  |  |  |  |

Challenge: Which of these calculations has the greatest answer?

Multiplication $3 \times, 4 \times$ and $8 \times$ Tables
Solve the calculations to reveal the hidden picture. Each answer has a special colour.
$0-10=$ green
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| $7 \times 8$ | $8 \times 1$ | $11 \times 4$ | $12 \times 4$ | $6 \times 8$ | $11 \times 4$ | $7 \times 8$ | $4 \times 0$ | $4 \times 11$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $4 \times 12$ | $0 \times 3$ | $8 \times 1$ | $12 \times 4$ | $8 \times 7$ | $8 \times 6$ | $0 \times 8$ | $3 \times 3$ | $4 \times 12$ |
| $4 \times 12$ | $6 \times 8$ | $3 \times 2$ | $3 \times 8$ | $4 \times 12$ | $3 \times 7$ | $4 \times 2$ | $12 \times 4$ | $8 \times 6$ |
| $11 \times 4$ | $4 \times 12$ | $8 \times 10$ | $9 \times 8$ | $4 \times 6$ | $8 \times 11$ | $8 \times 12$ | $4 \times 11$ | $12 \times 4$ |
| $6 \times 8$ | $11 \times 8$ | $10 \times 8$ | $8 \times 12$ | $9 \times 8$ | $10 \times 8$ | $8 \times 10$ | $8 \times 11$ | $7 \times 8$ |
| $10 \times 8$ | $8 \times 4$ | $8 \times 9$ | $11 \times 3$ | $8 \times 11$ | $8 \times 5$ | $9 \times 8$ | $5 \times 3$ | $8 \times 12$ |
| $8 \times 5$ | $10 \times 4$ | $8 \times 11$ | $4 \times 9$ | $8 \times 10$ | $4 \times 4$ | $8 \times 5$ | $8 \times 4$ | $9 \times 8$ |
| $4 \times 9$ | $8 \times 2$ | $3 \times 11$ | $4 \times 8$ | $12 \times 8$ | $8 \times 4$ | $4 \times 9$ | $3 \times 11$ | $4 \times 10$ |
| $3 \times 12$ | $8 \times 4$ | $4 \times 9$ | $3 \times 11$ | $3 \times 4$ | $4 \times 10$ | $5 \times 8$ | $3 \times 11$ | $8 \times 5$ |
| $2 \times 8$ | $8 \times 5$ | $9 \times 4$ | $8 \times 4$ | $4 \times 10$ | $12 \times 3$ | $4 \times 9$ | $5 \times 4$ | $4 \times 10$ |

Challenge: Which of these calculations has the greatest answer?

## Twelve Days of Christmas



| 1 | 8 | 8 | 31 |
| :--- | :--- | :---: | :--- |
| 2 | 6 | 9 | 34 |
| 3 | 10 | 10 | 184 |
| 4 | 28 | 11 | 140 |
| 5 | 21 | 12 | 64 |
| 6 | 30 | 13 | 76 |
| 7 | 32 | 14 | 364 |

## Christmas Code Breaker

|  | Answer | Letter |
| :---: | :---: | :---: |
| $2 \times 3$ | $\mathbf{6}$ | $\mathbf{c}$ |
| $16 \div 8$ | $\mathbf{2}$ | $\mathbf{a}$ |
| $7 \times 4$ | 28 | $\mathbf{l}$ |
| $125-115$ | $\mathbf{1 0}$ | $\mathbf{e}$ |
| $256-224$ | $\mathbf{3 2}$ | $\mathbf{n}$ |
| $32 \div 4$ | $\mathbf{8}$ | $\mathbf{d}$ |
| $201-199$ | $\mathbf{2}$ | $\mathbf{a}$ |
| $12 \times 4$ | 48 | $\mathbf{r}$ |


|  | Answer | Letter |
| :---: | :---: | :---: |
| $24 \div 4$ | $\mathbf{6}$ | $\mathbf{c}$ |
| $16 \div 8$ | $\mathbf{2}$ | $\mathbf{a}$ |
| $102-70$ | $\mathbf{3 2}$ | $\mathbf{n}$ |
| $2 \times 4$ | $\mathbf{8}$ | $\mathbf{d}$ |
| $169-141$ | $\mathbf{2 8}$ | $\mathbf{l}$ |
| $30 \div 3$ | $\mathbf{1 0}$ | $\boldsymbol{e}$ |


| $18 \div 3$ | $\mathbf{6}$ | $\mathbf{c}$ |
| :---: | :---: | :---: |
| $6 \times 8$ | 48 | $\mathbf{r}$ |
| $100-67$ | 33 | $\mathbf{o}$ |
| $500-420$ | 80 | $\mathbf{w}$ |
| $4 \times 8$ | $\mathbf{3 2}$ | $\mathbf{n}$ |


| $7 \times 4$ | 28 | $\mathbf{l}$ |
| :---: | :---: | :---: |
| $6+5+7$ | 21 | $\mathbf{i}$ |
| $139-124$ | 15 | $\mathbf{g}$ |
| $8+7+3$ | 18 | $\mathbf{h}$ |
| $8 \times 8$ | $\mathbf{6 4}$ | $\mathbf{t}$ |


| $56+24$ | $\mathbf{8 0}$ | $\mathbf{w}$ |
| :---: | :---: | :---: |
| $199-151$ | $\mathbf{4 8}$ | $\mathbf{r}$ |
| $40 \div 4$ | $\mathbf{1 0}$ | $\boldsymbol{e}$ |
| $730-728$ | $\mathbf{2}$ | $\mathbf{a}$ |
| $8 \times 8$ | $\mathbf{6 4}$ | $\mathbf{t}$ |
| $6 \times 3$ | $\mathbf{1 8}$ | $\mathbf{h}$ |


| $97-61$ | $\mathbf{3 6}$ | $\mathbf{p}$ |
| :---: | :---: | :---: |
| $10+38$ | $\mathbf{4 8}$ | $\mathbf{r}$ |
| $80 \div 8$ | $\mathbf{1 0}$ | $\mathbf{e}$ |
| $12 \times 3$ | $\mathbf{3 6}$ | $\mathbf{p}$ |
| $8 \div 4$ | $\mathbf{2}$ | $\mathbf{a}$ |
| $198-150$ | $\mathbf{4 8}$ | $\mathbf{r}$ |
| $80 \div 8$ | $\mathbf{1 0}$ | $\mathbf{e}$ |

## Think and Write: Frosty the Snowman

Example Answers:
Sentence 1: The huge, cold snowman had a wide, beaming smile on it's face.
Sentence 2: He had been in the street all night but he had not melted. Sentence 3: The snowman's body was covered by a dark green jacket. Sentence 4: He stood proudly beside the shop, smiling at people who passed by.
Sentence 5: How long would it be before the snowman started to melt?

## Festive Families

uni: unit, united, universe. scop: horoscope, telescope. vent: adventure,invent, venture.

## Example Answers: spect, press, write, struct.

## Santa's Slip Up

il-: legal, legible. im-: mature, perfect, patient, possible
ir-: regular, relevant, responsible

## Example Sentences:

It is impossible not to be impatient on Christmas Eve.

It can be illegal when you act irresponsibly.

## Let's Liven Things Up

pretty: attractive, good-looking, fetching, appealing.
kind: friendly,loving, thoughtful, considerate. colourful: gaudy, multicoloured, vibrant, vivid. tall: soaring, towering, sizable, giant.

Example Sentence: The fetching princess wore vibrant dresses.

## Christmas Close-Up

Many of the answers to this activity are down to the child's particular writing style and the specific brand of dictionary used but generic answers are as follows:

Christmas in alphabetical order is aChrimrsst

## Wondrous Word Search



| r | d | x | d | $e$ | i | v | a | s | z | u | r |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| s | g | p | e | $f$ | d | f | g | t | d | $f$ | a |
| x | c | g | C | m | u | n | $f$ | 0 | m | b | d |
| c | h | a | 0 | y | g | g | y | c | i | c | x |
| h | J | d | r | w | j | t | w | k | S | h | $u$ |
| i | $e$ | v | a | - | i | i | $r$ | i | t | $r$ | l |
| m | s | l | t | $v$ | l | n | $e$ | n | 1 | i | p |
| n | $u$ | j | i | j | d | s | a | g | $e$ | s | $f$ |
| $e$ | s | t | 0 | b | $f$ | e | t | S | t | t | $f$ |
| $y$ | a | d | n | h | s | l | h | $f$ | 0 | m | v |
| n | $e$ | V | s | l | $e$ | i | g | h | $e$ | a | $e$ |
| x | i | w | p | r | $e$ | s | $e$ | n | t | s | t |



## Christmas Elf Names Word Search



