Spalding St Paul's Primary


## Year 3/4 Maths Booklet



## Weeks 1 and 2

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DAY ONE

Write the biggest number you can with these digits: $2,5,3$ $\qquad$
Round 95 to the nearest 10. $\qquad$
What number is 10 less than 701 ? $\qquad$
What must I add to 35 to make 100 ? $\qquad$
Find the total of 4, 7 and 16. $\qquad$
12 children line up in 4 equal rows. How many children are in each row? $\qquad$
4 children equally share 20 sweets. How many do they get each? $\qquad$
What is the next multiple of 5 after 195 ? $\qquad$

I know that the code to my padlock has the numbers 2,4 and 7 in it but I cant remember the order! Write down all the possible combinations it could be...

a) What is the largest number you can make?
b) What is the smallest number you can make?
c) What is the largest even number you can make?

## Main Maths Activity

Use the table with the decimal point in the same place for each number.
Write in each number.
Fill in the empty squares with zeros.

For example:
67.29
23.3 This how you can check that your place value is correct!
0.12
89.6

| 6 | 7 | $\cdot$ | 2 | 9 |
| :---: | :---: | :---: | :---: | :---: |
| 2 | 3 | $\cdot$ | 3 | 0 |
| 0 | 0 | $\cdot$ | 1 | 2 |
| 8 | 9 | $\cdot$ | 6 | 0 |

Try these numbers:
45.2
$6.1 \quad 0.34$
14.56
3101.5

Can you also put them in order from largest to smallest?

|  |  |  | $\cdot$ |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  | $\cdot$ |  |  |
|  |  |  | $\cdot$ |  |  |
|  |  |  | $\cdot$ |  |  |
|  |  |  | $\cdot$ |  |  |
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Which of the following decimal numbers is the greatest?
a) 4.56
b) 0.45
c) 6.05
d) 5.46

## I think that.... because....

Which is the greater? 1.9 or 1.5 ?

The decimal number 1.17 is greater than 2 . True or false?


Test your decimal ordering skills with this online game!
https://www.mathsisfun.com/numbers/ordering-game.php

Using the squared paper below, can your order the following sets of decimals?

| 56.9 | 70.01 | 101.9 | 1.9 | 0.95 |
| :--- | :--- | :--- | :--- | :--- |
| 8.2 | 51.2 | 127.4 | 6.7 | 6.8 |
| 0.4 | 17.4 | 190.23 | 5 | 0.16 |
| 0.27 | 18 | 181 | 8.01 | 0.65 |
| 6.12 | 10.34 | 175.5 | 4.36 | 0.3 |


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Write in figures the number eight hundred and six. $\qquad$
Round 650 to the nearest 100. $\qquad$
Put a ring round the smallest number:7, $-1,5,-8,2$
If I am facing North and turn through 2 right angles, in what direction will I be facing?

Calculate the answer to 700 subtract 200. $\qquad$
What is 200 more than 342 ? $\qquad$
What is 900 divided by 10 ? $\qquad$
Write the operation sign that would make the number sentence correct. 18 ? $5=90$

A large box weighs 1 kilogram and 350 grams. How many grams is this altogether? $\qquad$
Choose the best unit for measuring the length of a garden. km, m, cm - Ring the correct one.

Round these numbers...

| Number | Nearest <br> 10 | Nearest <br> 100 |
| :---: | :---: | :---: |
| 481 |  |  |
| 395 |  |  |
| 56 |  |  |
| 132 |  |  |
| 1904 |  |  |

Can you order these decimal numbers? You can pick from easy, tricky and hard!

| Easy |  |  | Tricky |  |  | Hard |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1.8 | 1.4 | 4.43 | 4.3 | 4.40 | 7.41 | 74.01 | 7.39 |
| 5.32 | 4.99 | 5.2 | 6.2 | 06.22 | 6.26 | 12.41 | 12.53 | 12.11 |
|  | 4.22 | 4.2 | 13.57 | 1.41 | 14.04 | 14.11 | 14.09 | 14.63 |
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Can you use the correct symbol between the following pairs of decimals? For example:
$14.2>4.2$ You can choose from these symbols.

| 18.7 | 9.17 | 81.01 | 80.95 |
| :--- | :--- | :--- | :--- |
| 1.2 | 1.12 | 0.09 | 0.90 |
| 7.01 | 7.10 | 0.12 | 0.12 |
| 0.05 | 0.50 | 8.02 | 8.08 |
| 34.56 | 30.56 | 1.10 | 1.01 |

Vocabulary: money, coin, penny, pence, pennies, pound, price, cost, buy, bought, sell, sold, spend, spent, pay, change
Can you add up these coin totals?



Can you add the amounts together, using column addition?


What is the total of the coins shown?


Can you group any of the coins to make 100 pence?
How many whole pounds do you have?
How many pence are left over?
So there is $f$ $\qquad$ and $\qquad$ p.

How many pennies are there in a pound ( $£$ )?
How many pennies in $£ 6$ ?
What would 520 p be in pounds?
What would $£ 3.47$ be in pennies?


DAY THREE

Harry has 206 pence.
He has one pound coin.
Show five possible combinations of other coins he may have.

Sarah thinks there is more than $£ 5$ but less than $£ 6$ Is Sarah correct?


How many 5 pence pieces are there in 30 p?


How many 2 pence pieces in 18p?


How many 20 pence pieces in $£ 1.40$ ?


Main Maths Activity
I buy three cakes for $£ 1.86$ each. How much have I spent? (Use column addition!)

|  |  |  |  |  |  |
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I bought a bike for $£ 68.99$ and a scooter for $£ 24.99$. How much have I spent altogether?


What calculation does this bar model show?

|  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
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Can you use the part-whole model to find the answer to this addition?

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Bobby has $£ 3$ and 50 p. She gives $£ 2$ and 10 p to her sister.
How much does she have left? (Use a column subtraction!)

|  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
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Smallest amount of coins to make:

| £2.65 |  |
| :--- | :--- |
| £1.87 |  |
| £2.99 |  |
| £4.53 |  |

## DAY FOUR

What number is 100 more than 437 ? $\qquad$
Write in figures the number six hundred and thirteen.
Round 539 to the nearest 100. $\qquad$
A watch costs between $£ 6$ and $£ 7$. How much might it have cost? $\qquad$
If I am facing west and turn clockwise through $3 / 4$ turn, in what direction am I facing?

Find the total of $16,3,5$ and 7. $\qquad$
Double 450.
Put in the operation sign that would make the number sentence make sense. 63 ? $98=161$

1 pen costs 75 p. What is the cost of 4 pens? $\qquad$
Write two pounds and seven pence using the $£$ sign and decimal point. $\qquad$

For each question put the decimals in order. Remember:
A decimal is a number that contains tenths, hundredths, thousandths etc., with a decimal point between the ones and tenths. Money is often used to teach decimals. For example, 3.4, 2.18, £56.99

| Question | Answer |
| :---: | :---: |
| $1.2,1.8,1.5,1.4$ |  |
| $3.8,3.9,2.6,4.0$ |  |
| $0.70,0.78,0.51,0.62$ |  |
| $1.35,1.26,1.25,2.01$ |  |
| $6.67,6.50,6.60,6.55$ |  |

Can you find all the pairs which total 1 ?

| 0.1 | 0.6 | 0.45 | 0.75 |
| :---: | :---: | :---: | :---: |
| 0.95 | 0.8 | 0.9 | 0.65 |
| 0.5 | 0.2 | 0.05 | 0.5 |
| 0.85 | 0.3 | 0.15 | 0.35 |
| 0.4 | 0.55 | 0.25 | 0.7 |

## Main Maths Activity

Vocabulary: fraction, numerator, denominator, equal, unit fraction, non-unit fraction, equivalent, half, quarter, third, fifth, sixth

Name each fraction.


Colour $1 / 2$ on these grids:


Colour in the fractions:

$\underline{2}$


7
10


3
6

$\underline{5}$
12

A large chocolate cake weighs 800 g .
How much does $\frac{1}{2}$ of the cake weigh? $\qquad$
How much does $\frac{3}{4}$ of the cake weigh?
$\frac{1}{4}$ weighs $\qquad$ so...

$\frac{3}{4}$ weighs $\qquad$
If $\frac{1}{4}$ of a packet of Jelly Beans has 7 sweets. How many are there in a whole packet?

$\qquad$

A unit fraction is a fraction where the numerator (top number) is 1 and the denominator (bottom number) is a whole number. All these fractions are unit fractions:
$\frac{1}{4}$


A non-unit fraction is a fraction where the numerator is greater than 1 . For example, $3 / 4$ is a non-unit fraction, because three is the numerator.


What fraction of these shapes are coloured? Are they unit fractions or non-unit fractions?

| Shapes | Fraction Coloured | Unit or Non-Unit Fraction |
| :---: | :---: | :---: |
|  |  |  |

DAY FIVE

Write in figures the number one thousand five hundred and six.

Write 193 to the nearest hundred. $\qquad$
What number comes immediately before 560 ? $\qquad$
What number is halfway between 300 and 400 ? $\qquad$
How many faces has a triangular prism? $\qquad$
What is 600 and 400 altogether? $\qquad$
Put a ring round the number that is a multiple of five: $16,20,51,59$
Write in the operation sign that would make the number sentence correct 150 ? $21=129$

How much time is between 8am and 3pm? $\qquad$


## Main Maths Activity

These are all equivalent fractions, even though they all have different numerators and denominators.
They show that the same amount of the bar has been shaded overall.


Look at the pattern when we use equivalent fractions.




Here are some helpful hints! Read these and then find the equivalent fractions.
What ever you do to the top, you must do to the bottom.
Always work from the first fraction in the line.
Ask yourself, "What multiplication or division is being done to the first fraction in the line?"


$$
\frac{1}{4}=\underline{5}
$$



$$
\underline{5}=\underline{35}
$$

$\underline{2}=\underline{10}$
6
$\frac{4}{7}=-$
$\underline{6}=\underline{24}$
8
$\frac{6}{9}=-$

Are these equivalent fractions correct?
Explain why.

## True or False?

$\underline{1}=\underline{6}$
$2 \quad 13$

$\underline{3}=\underline{33}$
555

> I know that...

## What's the mistake?



Write the number 306 in words. $\qquad$
What is 5 multiplied by 5 ? $\qquad$
What is double 18? $\qquad$
Write the next even number after 38. $\qquad$
What is 100 subtract $17 ?$ $\qquad$
What is 32 divided by 4 ? $\qquad$
Multiply 27 by 10. $\qquad$
What is 533 rounded to the nearest 10 ? $\qquad$
What is $1 p$ less than $£ 1$ ? $\qquad$
Tom has 27 marbles and Sue has 43 marbles. How many marbles have they altogether?

Which fraction is the same as $\frac{1}{4}$ ?

- $\quad 2$

3

- $\quad 2$

8

- 4

8

Which fraction is the same as $\frac{3}{4}$ ?

- 4

5

- 1

2

- 9

12

Which fraction is the same as $\underline{6}$ ?
Which fraction is the same as $\underline{5}$ ?

- $\quad 12$
- $\quad 7$

10

- $\quad 10$

12

- $\quad 10$
- 10

16

## Main Maths Activity

## Recap!

A unit fraction always has a numerator of $\qquad$
A non-unit fraction has a numerator that is $\qquad$ than $\qquad$
An example of a unit fraction is $\qquad$
An example of a non-unit fraction is $\qquad$

$\qquad$ out of $\qquad$ equal parts are shaded.

$\qquad$ out of $\qquad$ equal parts are shaded.

$\qquad$ out of $\qquad$ equal parts are shaded.

$\qquad$ out of $\qquad$ equal parts are shaded.


True or false? Two thirds of the shape is shaded.


Sort these fractions into the Venn diagram!

| $\underline{2}$ | $\frac{2}{5}$ | $\frac{6}{7}$ | $\frac{3}{6}$ | $\frac{5}{7}$ | $\frac{12}{24}$ | $\frac{4}{10}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\underline{2}+\underline{3}=\underline{5}$
$6 \quad 6$
We add the numerators.
The denominator remains the same.

Look at these examples! What do you notice?
$\underline{3}+\underline{1}=4$
$\frac{2}{8}+\frac{4}{8}=\frac{6}{8}$
$\frac{3}{9}+\frac{4}{9}=\frac{7}{9}$

Can you complete these fraction additions?
$\frac{4}{6}+\frac{1}{6}=$
$\frac{5}{9}+\frac{3}{9}=$
$\frac{1}{3}+\frac{1}{3}=$
$\frac{2}{4}+\frac{1}{4}=$
$\frac{2}{5}+\frac{2}{5}=$
$\frac{4}{10}+\frac{5}{10}=$

Remember:

This number tells us how many parts we are looking at.


Try these! Colour in the fractions and then complete the missing numerator.



How many fraction pairs can you think of that make a whole one?
For example: $\frac{1}{4}+\frac{3}{4}$

|  |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
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## Complete the sentence:

When a fraction is equal to a whole, the numerator and the denominator are

Use pictures to prove your answer.

If the frame represents 1 whole, what does each box represent?


How many tenths make the whole?
How many tenths are shaded?
How many more tenths do I need to make a whole?
When I am writing tenths, the $\qquad$ is always 10

Teddy says,

I have one pizza cut into 6 equal pieces. I have eaten $\frac{6}{6}$ of the pizza.

Does Teddy have any pizza left?
Explain your answer.

## DAY SEVEN

Write the number 402 in words. $\qquad$
What is 6 times 4 ? $\qquad$
What is half 32 ? $\qquad$
Write the next odd number after 49. $\qquad$
What is the difference between 80 and 53? $\qquad$
What is 35 shared between 5 ? $\qquad$
Multiply 46 by 100 . $\qquad$
What is 446 rounded to the nearest 10 ? $\qquad$
How many 50 p coins make $£ 8$ ? $\qquad$
Danny has 18 comics and Jenny has 30 comics. How many more comics has Jenny?

Complete this multiplication square.

| $X$ | 1 | 2 | 3 | 4 | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |

1) Three tenths of the 20 people on the beach are wearing sun glasses. How many are wearing sunglasses? $\qquad$
2) Of the 18 children on the playground, four-sixths want to play basketball. How many want to play basketball? $\qquad$
3) There are 20 roses in a vase. Three-fifths are red and two fifths are white. How many red, and how many white roses? $\qquad$

You've already been adding fractions. Now let's try subtracting!

$$
\begin{aligned}
& \frac{3}{4}-\frac{1}{4}=\frac{2}{4}
\end{aligned} \quad \text { We subtract the numerators. (Larger fraction first!) }
$$

$\frac{4}{6}-\frac{1}{6}=$
5-3 =
99
$\frac{4}{5}-\frac{2}{5}=$
$\frac{6}{7}-\frac{2}{7}=$
$\frac{10}{12}-\frac{4}{12}=$
$\frac{9}{10}-\frac{6}{10}=$
$\frac{1}{3}-\frac{1}{3}=$
What will be the answer to this question?
Give your reasons!


Leo lost half of his marbles in a game. This is what he has left. How many did he start with?


Which circles are one quarter blue?

Which bucket is half full?
Which bucket is less than half full?



Sam's pizza is cut into quarters.
He wants to put 4 slices of mushroom on each slice.
How many mushroom slices will he need altogether?

## Calculating fractions of whole numbers

$\underline{2}$ of 15
5 Divide the whole number by the denominator. Then multiply this answer by the numerator to find the final answer!

$$
15 \div 5=3 \times 2=6
$$

Can you find the fractions of these numbers?
3 of $8=$ 4
2 of $9=$ 3
$\frac{6}{10}$ of $50=$
$\underline{2}$ of $28=$
$\underline{9}$ of $40=$ 20

Use your new skills to solve this problem!
Here's an example.
Of the 24 children on the playground, two-sixths want to play basketball. How many want to play basketball?

$$
\begin{aligned}
& \frac{2}{6} \text { of } 24 \\
& 24 \div 6=4 \times 2=8
\end{aligned}
$$

Six tenths of the 30 people on the beach are wearing sun glasses. How many are wearing sunglasses?

## DAY EIGHT

Write the number 1573 in words. $\qquad$
What is the product of 7 and 3 ? $\qquad$
What is double 80? $\qquad$
Write an even number between 90 and 100. $\qquad$
What is 42 less than 80 ? $\qquad$
How many threes in 33 ? $\qquad$
Multiply 52 by 10. $\qquad$
What is 779 rounded to the nearest 10 ? $\qquad$
What do eleven 10p coins total? $\qquad$
At a garage there are 47 cars for sale. 32 cars are sold. How many cars are not sold?
9

Can you work out the missing digits from these choices?

-

502


It doesn't matter what order we multiply numbers together; we will always get the same answer.

Do you agree or disagree?
Give 3 examples to prove it!

## Main Maths Activity

Vocabulary: second, minute, hour, half, quarter, to, past, midnight, noon, midday, clock, hands, 24-hour clock, analogue clock, digital clock, pm, am, Roman numeral


24 hours in a day
12 hours in half a day
60 minutes in an hour
30 minutes in half an hour


15 minutes in a quarter of an hour 45 minutes in three quarters of an hour


5 o'clock
5:00pm (using am or pm)
17:00 (using the 24-hour clock)


Meaning of "AM" and "PM"
Can you write the times shown on these clocks?

__o'clock
12:00pm (using am or pm)
$\qquad$ :00 (using the 24-hour clock)
24-hour clock
00 - midnight
03:00-3am
12:00-12pm
15:00-3pm
20:00-10pm

$\qquad$ o'clock

## 7:00pm (using am or pm)

___0 (using the 24-hour clock)


4:30am (using am or pm)
 ___ 30 (using the 24-hour clock) ___30 (using the 24 -hour clock)


5:30pm (using am or pm)
$\qquad$ :30 (using the 24-hour clock)



Discuss with a family member what these two clock diagrams show.

## Remember:

-The long hand is the minute hand
-The short hand is the hour hand
-There are 60 minutes on a clock face- we usually break these down into $5 s-0,5,10,15$, $20,25,30,35,40,45,50,55,00$.
-There are 12 hours shown on an analogue clock


Why does a clock show 11 o'clock twice in a day? $\qquad$

How many hours do you spend at school in a day? $\qquad$
When does school start and finish? $\qquad$


Do you agree with Jenny?
Explain your answer. $\qquad$

## DAY NINE

Write the number 4809 in words. $\qquad$
What is the product of 9 and 4 ? $\qquad$
What is double 140 ? $\qquad$
Write an even number between 178 and 187.
Decrease 72 by 14. $\qquad$
Divide 40 by 10. $\qquad$
Make 33 ten times bigger. $\qquad$
What is 272 rounded to the nearest 10 ? $\qquad$
How many 20p coins make $£ 2$ ? $\qquad$
I have 93 p and spend 18 p on sweets. How much do I have left? $\qquad$

How many minutes in an hour? $\qquad$ How many minutes in half an hour? $\qquad$


How many minutes in a quarter of an hour? $\qquad$
How many minutes in three quarters of an hour? $\qquad$


Which of the hands is the minute hand and which is the hour hand? $\qquad$
Is the minute hand past or to the hour? $\qquad$
How many minutes past/to the hour is the minute hand?

Why is the hour hand pointing to a point about halfway between the 2 and the 3 ? $\qquad$

$\qquad$ minutes past $\qquad$ and $\qquad$ minutes to $\qquad$

$\qquad$ minutes past $\qquad$ and $\qquad$ minutes to $\qquad$

$\qquad$ minutes past $\qquad$ and $\qquad$ minutes to $\qquad$

$\qquad$ minutes past $\qquad$ and $\qquad$ minutes to $\qquad$

Fill in the missing times - use clock hands or the digital numbers.



Who do you agree with? Explain your thinking.


DAY TEN

Write the number 3013 in words. $\qquad$
What are 5 lots of 9 ? $\qquad$
What is half of 260 ? $\qquad$
Write an odd number between 309 and 319. $\qquad$
What number is 58 less than 85 ? $\qquad$
Double 240. $\qquad$
Multiply 27 by 20. $\qquad$
What is 996 rounded to the nearest 10 ? $\qquad$
What is $1 p$ less than $£ 1.10$ ? $\qquad$
I have 19 p in one pocket and 47 p in another pocket. How much do I have altogether?

What are the times on these different clocks and watches?


Sort these times from earliest to latest.
Remember that a new day starts at midnight!

| $5: 30 \mathrm{pm}$ | $9: 45 \mathrm{am}$ | $9: 45 \mathrm{pm}$ | $10: 23 \mathrm{am}$ |
| :---: | :---: | :---: | :---: |
| $7: 30 \mathrm{am}$ | $10: 15 \mathrm{pm}$ | $8: 40 \mathrm{am}$ | $6: 35 \mathrm{pm}$ |
| $12: 20 \mathrm{am}$ | $8: 55 \mathrm{pm}$ | $7: 50 \mathrm{am}$ | $2: 10 a m$ |

$\square$

The board shows the times of trains arriving and leaving the train station.

|  | Arrives | Leaves |
| :--- | :--- | :--- |
| Manchester | $7: 02 \mathrm{am}$ | 7:10am |
| Leeds | $7: 19 \mathrm{am}$ | 7:28am |
| London | $7: 43 \mathrm{am}$ | 7:55am |
| Sheffield | $7: 50 \mathrm{am}$ | 8:03am |



Bob's watch shows the time he arrives at the station.

Which train could he be catching? Explain how you know.
$\qquad$
$\qquad$

## Main Maths Activity

Vocabulary: day, week, fortnight, yesterday, today, tomorrow, month, year, leap year, calendar

| Month Number | Month | In 3 letters | Days in Month |
| :---: | :---: | :---: | :---: |
| 1 | January | Jan | 31 |
| 2 | February | Feb | 28 (29 in leap years) |
| 3 | March | Mar | 31 |
| 4 | April | Apr | 30 |
| 5 | May | May | 31 |
| 6 | June | Jun | 30 |
| 7 | July | Jul | 31 |
| 8 | August | Aug | 31 |
| 9 | September | Sep | 30 |
| 10 | October | Oct | 31 |
| 11 | November | Nov | 30 |
| 12 | December | Dec | 31 |

Thirty days hath September, April, June, and November, All the rest have thirty-one, But February's twenty-eight, The leap year, which comes once in four, Gives February one day more.

Can you answer these questions about the months of the year?
How many days does June have? $\qquad$
How many days does January have? $\qquad$
How many days does February have normally? $\qquad$
How many days does February have in a leap year? $\qquad$
How many days do June and July have together? $\qquad$
How many days do December and January together? $\qquad$
How many days do August and September have together? $\qquad$

## April 2020

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 <br> April Fools' <br> Day | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 <br> Barbeque |
| 12 <br> Egg Hunt | 13 | 14 <br> Painting | 15 | 16 | 17 <br> Gardening | 18 |
| 19 <br> Ben's <br> Birthday | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 <br> Fran's <br> Birthday | 29 | 30 | 1 | 2 |

Can you answer the questions about the month shown on the calendar?
On what date is the Egg Hunt on? $\qquad$
What day is the $3^{\text {rd }}$ of the month? $\qquad$
What day is the $26^{\text {th }}$ ? $\qquad$
What day is the $10^{\text {th }}$ ? $\qquad$
How many Thursdays are there in this month? $\qquad$
How many Sundays are there in this month? $\qquad$
What day would the $1^{\text {st }}$ of the next month be? $\qquad$
How many full weeks are there in this month? $\qquad$
What day is the day before Fran's birthday? $\qquad$
What day is the week after April Fools' Day? $\qquad$

