Maths

LKS2 – Sport theme – w/c 22.6.20

Weekly Overview – Maths – Sports - LKS2 w/c 22.6.20

These lessons/activities are designed to take place over 5 days. You can choose to complete them in whatever order you like. Day 4 would ideally be done outside, so pick a sunny day (hopefully we will have a few) for the activities planned for that day.

Day 1	Today you will be solving some addition/multiplication problems based on having your name engraved on medal. Remember to show any working out that you do so we can see your thinking and provide you with feedback.
Day 2	Today, you have set of medals (bronze, silver, gold and platinum) that have a set price. You must solve a range of word problems based on the cost of the medals. Please show all your working out!
Day 3	With football returning this month, avid fans may need to work out how long they will be unavailable for while they watch their favourite game. Today, your challenges involve working out time problems relating to the return of football season. Please use a number line to support your answer.
Day 4	Today, we would like you be as active and practical as possible with your maths activities. If you are in school, you many need to involve a friend (while keeping a safe distance) and if you are at home, you might need to ask a parent or sibling to join in. You are going to be doing some measuring and recording of time, distance and amounts. If you don't have a timer or tape measure, you can measure time by saying (one- Mississippi, two-Mississippi, three-Mississippi etc) and you could measure distance with your foot steps (make sure you measure using the same person's footsteps so that you are as accurate and fair as possible.)
Day 5	Today, you must work out when the list of sporting celebrities birthdays could be. You need to use your multiplication skills to solve the problems.

Welcome to the medal shop!

Day 1 – medal problems

Today you will be solving some addition/multiplication problems based on having your name engraved on medal.

Remember to show any working out that you do so we can see your thinking and provide you with feedback.

	a	b	c	d	e
	20p	30p	40p	50p	60p
	f	g	h	i	j
	20p	30p	40p	50p	60p
	k	l	m	n	o
	20p	30p	40p	50p	60p
	p	q	r	s	t
	20p	30p	40p	50p	60p
	u	v	w	x	y
	20p	30p	40p	50p	60p
	z				
	20p				

To have your name engraved on the medal, you must pay per letter of your name.

For **example**, if your name is Cameron then...

C	A	M	E	R	O	N
40p	20p	40p	60p	40p	60p	50p

You must then add the cost of the letters together to find total cost of the engraved medal. You may use whichever method you choose. This is how we could do it...

40p x 3 = 120p = £1.20
60p x 2 = 120p = £1.20
50p + 20p = 70p
£1.20 x 2 = £2.40 + 70p = **£3.10**

a	b	c	d	e
20p	30p	40p	50p	60p
f	g	h	i	j
20p	30p	40p	50p	60p
k	l	m	n	o
20p	30p	40p	50p	60p
p	q	r	s	t
20p	30p	40p	50p	60p
u	v	w	x	y
20p	30p	40p	50p	60p
z				
20p				

1) Have a go at finding the cost of having your own name engraved on the medal.

2) Now have a go at finding the cost of having these names engraved onto a medal:
a) Shuaib
b) John
c) Mahrosh
d) Martha
e) Joshua
f) Eric
g) Alyssa
h) Takara
i) Spike
j) Hayden
k) Aroush
l) Milo

If your name is in this list, then choose another name from someone in your class.

3. Using your own name again, try these...

Each letter costs 50p.

Each letter costs 70p.

Each letter costs 80p.

Each letter costs 90p.

The first two letters cost 60p and the rest cost 70p.

The first three letters cost 40p and the rest cost 90p.

Day 2 – more medal problems

Today, you have set of medals (bronze, silver, gold and platinum) that have a set price. You must solve a range of word problems based on the cost of the medals.

Please show all your working out!

Bronze   Silver   Gold   Platinum

£2.75   £3.45   £3.95   £2.45

I bought 2 bronze and I silver medal. What was the cost?

| Bronze | Silver | Gold | Platinum |

£2.75 £3.45 £3.95 £2.45

I bought some medals. Two medals were silver and one was gold. The total cost was £13.60. What else did I buy?

Bronze £2.75   Silver £3.45   Gold £3.95   Platinum £2.45

I spent £13.80.
What did I buy? (Show your working out – you may need to try lots of possibilities)

Bronze	Silver	Gold	Platinum
£2.75	£3.45	£3.95	£2.45

I bought two medals. What did I spend? (Find all possibilities)

Bronze	Silver	Gold	Platinum
£2.75	£3.45	£3.95	£2.45

I bought 2 bronze and 1 silver medal.
What was the cost?

I bought some medals. Two medals were silver and one was gold. The total cost was £13.60. What else did I buy?

I spent £13.80.
What did I buy? (Show your working out – you may need to try lots of possibilities)

I bought two medals. What did I spend? (Find all possibilities)

Printable page

£2.75 Bronze

£3.45 Silver

£3.95 Gold

£2.45 Platinum

How much more is the gold medal than the bronze medal? Show your working out.

I have 6 £2 coins. Is it enough to buy one of each medal? Prove it.

What is the change from £10 if I buy the cheapest and most expensive medal?

What is the smallest number of coins I could use to pay for the silver and bronze medal? Show any working out.

I buy 10 of each medal. What is the cost?

I need 12 medals for a competition.
My budget is £40. What could I buy? (Find as many possibilities as you can.)

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Day 3 – what time is it?

With football returning this month, avid fans may need to work out how long they will be unavailable for while they watch their favourite game.

Today, your challenges involve working out time problems relating to the return of football season.
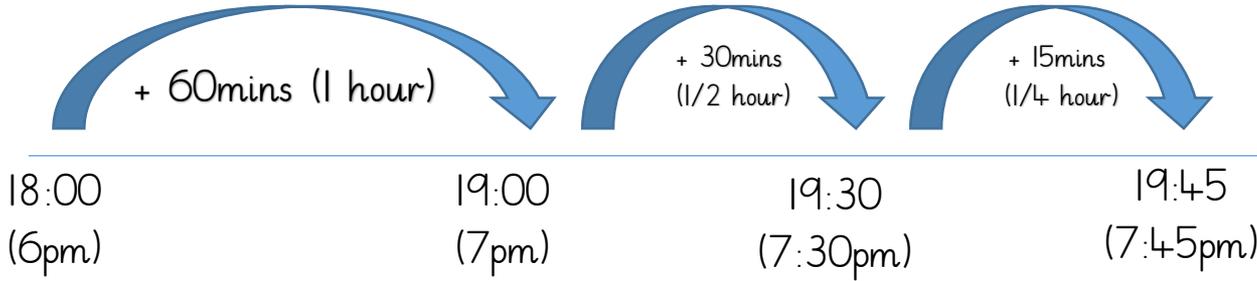
Please use a number line to support your answer.

A football match lasts 90 minutes (1 hour and 30 minutes) plus 15 minutes for half time. What time do the matches finish?
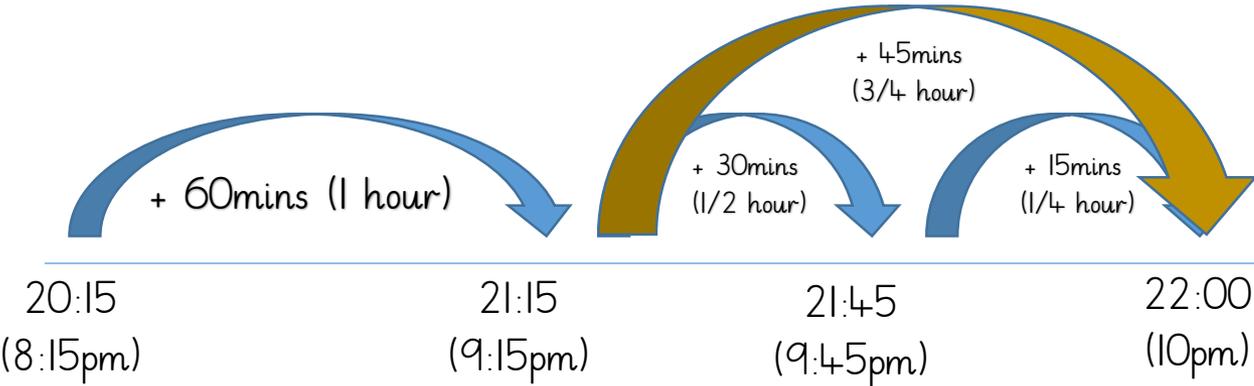
PREMIER LEAGUE

Aston Villa 18:00 Sheffield United

Manchester City 20:15 Arsenal

Example of how you could solve time problems using a number line...

Aston Villa v Sheffield United finishes at 19:45

+ 60mins (1 hour)   + 30mins (1/2 hour)   + 15mins (1/4 hour)

18:00 (6pm)   19:00 (7pm)   19:30 (7:30pm)   19:45 (7:45pm)

Manchester City v Arsenal finishes at 22:00

+ 45mins (3/4 hour)

+ 60mins (1 hour)   + 30mins (1/2 hour)   + 15mins (1/4 hour)

20:15 (8:15pm)   21:15 (9:15pm)   21:45 (9:45pm)   22:00 (10pm)

A football match lasts 90 minutes (1 hour and 30 minutes) plus 15 minutes for half time. What time do the matches finish? *Show your working out using number lines.*

| < JN | FRI 12 JUN | SAT 13 JUN | SUN 14 JUN | MON 15 JUN | TUE 16 JUN | TODAY 17 JUN | THU 18 JUN | FRI 19 JUN | SAT 20 JUN | SUN 21 JUN | MON 22 JUN | 23 > |

PREMIER LEAGUE

1	Newcastle United	14:00	Sheffield United
2	Aston Villa	16:15	Chelsea
3	Everton	19:00	Liverpool

| < JN | FRI 12 JUN | SAT 13 JUN | SUN 14 JUN | MON 15 JUN | TUE 16 JUN | TODAY 17 JUN | THU 18 JUN | FRI 19 JUN | SAT 20 JUN | SUN 21 JUN | MON 22 JUN | 23 > |

PREMIER LEAGUE

4	Watford	12:30	Leicester City
5	Brighton & Hove Albion	15:00	Arsenal
6	West Ham United	17:30	Wolverhampton Wanderers
7	AFC Bournemouth	19:45	Crystal Palace

Day 4 – let's get active!

- Today, we would like you be as active and practical as possible with your maths activities. If you are in school, you many need to involve a friend (while keeping a safe distance) and if you are at home, you might need to ask a parent or sibling to join in.

- You are going to be doing some measuring and recording of time, distance and amounts. If you don't have a timer or tape measure, you can measure time by saying (one-Mississippi, two-Mississippi, three-Mississippi etc) and you could measure distance with your foot steps (make sure you measure using the same person's footsteps so that you are as accurate and fair as possible.)

Star jumps in one minute	
Your name:	
Partner name:	

Who did the most jumps in a minute?

How many more jumps did they win by?

Sit ups in one minute	
Your name:	
Partner name:	

Who did the most sit ups in a minute?

How many more sit ups did they win by?

Frog jumps in one minute	
Your name:	
Partner name:	

Who did the most sit ups in a minute?

How many more sit ups did they win by?
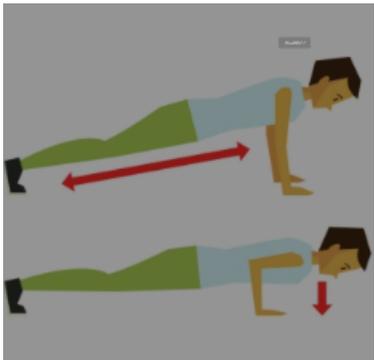
Sit ups in one minute	
Your name:	
Partner name:	

Who did the most sit ups in a minute?

How many more sit ups did they win by?

Long jump	
Your name:	
Partner name:	

Who jumped the furthest?

How much further did they jump?

Shot put a.k.a balls/scrap paper in a bucket in a minute	
Your name:	
Partner name:	

Who threw in the most balls/objects?

How many more objects did they win by?

Laps around the pele / your garden / living room in 5 minutes	
Your name:	
Partner name:	

Who ran the most laps?

By how many more laps did they win?
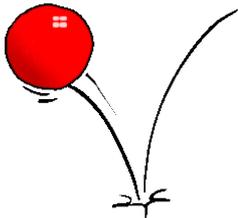
Ball bounces in a minute (or any object that bounces)	
Your name:	
Partner name:	

Who bounced the balls the most times?

By how many more bounces did they win?

Day 5 – what's my birth date?

Birthdays of sports people

Today, you must work out when the list of sporting celebrities birthdays could be.

You need to use your multiplication skills to solve the problems.

Example:

Andy Murray's birth date value is 75. What could his birthday be?

Andy Murray
TENNIS PLAYER

BIRTHDAY
May 15, 1987

BIRTHPLACE
Glasgow, Scotland

AGE
33 years old

BIRTH SIGN
Taurus

To solve the problem you must multiply the day of the month the celebrity was born by the month they were born in e.g. Murray was born on 15th day of May so the calculation would be 15 x 5 = 75. You need to use your multiplication knowledge to help you find the possible birth date of the celebrities. Some questions may have more than one possible answer. Good luck!

Marcus Rashford's birth date value is 310. What could his birth date be?
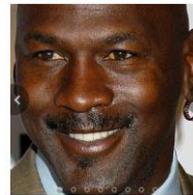
Neymar's birth date value is 10. What could his birth date be?
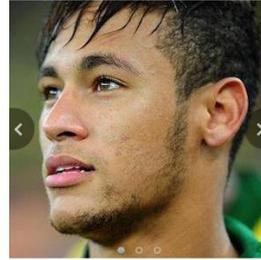
Eden Hazard's birth date value is 7. What could his birth date be?

Michael Jordan's birth date value is 34. What could his birth date be?

Paula Radcliffe's birth date value is 204. What could her birth date be?

Alex Scott's birth date value is 140. What could her birth date be?

Maria Sharapova's birth date value is 76. What could her birth date be?

Sanya Richard's birth date value is 52. What could her birth date be?