Year 5

Learning Grid for week beginning: 13.07.2020

All of our activities have been designed to try to avoid the need for printing of any kind, although of course you can print if you want to. Remember, you should always check with an adult before using the internet and remember to tell an adult if you see something that makes you feel uncomfortable. There's further guidance from the NSPCC here.

Maths		English		Theme	Physical	Social
Arithmetic	Further tasks	Reading	Writing (including spelling, punctuation & grammar)			
Keep building your accuracy and fluency in mathematics by answering a set of these questions each day. Remember, you can copy the equations on to some scrap paper before you answer each one as arithmetic is not always mental maths. The foci for this week are: **Session 1**: Adding large numbers. **Session 2:** Finding the missing number. **Session 3:** Log in to TTRS and complete your sessions for the week! **Session 4:** Finding the missing number. **Session 5**: Finding the missing number. **Answers for the arithmetic sessions are on the last page.**	**Session 1:** **Session 1: Metric Units** Click here for the online lesson. **Session 2: Imperial Units** Click here for the online lesson. **Session 3:. Converting units of time** Click here for the online lesson. **Session 4:. Timetables** Click here for the online lesson. **Log on to Mathletics to complete the learning that has been assigned to you. Remember to have some scrap paper to hand to do any workings out**.	Aim to read for 25 minutes every day, with an adult when you can. Link to do Accelerated Reader quizzes from home: https://ukhosted56.renlearn.co.uk/1894764/ **Session 1:** Click here for the online lesson on reading retrieval skills. **Session 2:** Click here for the online lesson reading retrieval skills **Session 3:.** Click here for a lesson on William Shakespeare's 'The Tempest'. **Session 4**: Click here for the online lesson about William Shakespeare's Romeo & Juliet. **Session 5:** Click here for the online lesson on how we generate impressions of characters.	**Session 1:** Click here for the online lesson on setting descriptions. **Session 2:** Click here for the SP&G lesson on parenthesis. **Session 3:** Click here for the online lesson on writing setting descriptions. **Session 4:** Watch this online lesson on writing a comic and using parenthesis. Afterwards, you could start to plan what kind of comic you would like to create. Usually comics are about superheroes so you may want to design your own superhero today! **Session 5:.** Using the template and yesterday's learning, create your own comic based on your invented superhero.	**Art: The Circle Challenge** Click here for the online lesson. **Art: Juan Miro and Automatic Drawing** Click here for the online lesson. **Computing: E-Safety focus** Click here for online lesson/activities.	Click here to do PE with Joe Wicks three times a week. The Olympics may have been postponed but we can compete against each year group to see who can travel the furthest. Our school has been set up on the "Get Set Travel to Tokyo" so don't forget to log your family's activity! For the last time, you have the opportunity to choose two activities.	Click here to look at the variety of clubs that the National Oak Academy are running. They range from cooking, to art, to scouts. Why not take part in some of these activities this week with someone that you live with! Look back on your time in Year 5 and discuss your favourite parts of it with someone in your house. Afterwards, discuss what you are most looking forward to when you move up to Year 6.

Monday

Arithmetic 1

A)
```
  56828
  46860
+ 95520
```

B)
```
  759456
  588514
+ 875845
```

C)
```
  9792887
  6489471
+ 3252044
```

D)
```
  90981
  51879
+ 77615
```

E)
```
  707221
  467216
+ 967284
```

F)
```
  491534
  780464
+ 736184
```

G)
```
  9596804
  3052328
+ 1010987
```

H)
```
  61125
  59596
+ 28006
```

I)
```
  219945
  477313
+ 197620
```

J)
```
  7021823
  7289880
+ 7272593
```

K)
```
  7146321
  8808484
+ 2730705
```

L)
```
  73277
  48297
+ 97865
```

M)
```
  408152
  638975
+ 886943
```

N)
```
  9172489
  8536514
+ 9746341
```

O)
```
  12148
  71984
+ 14890
```

P)
```
  49449
  34673
+ 57064
```

Q)
```
  318894
  465762
+ 521675
```

R)
```
  4018997
  7825040
+ 4694220
```

S)
```
  92523
  49198
+ 34935
```

T)
```
  883339
  867576
+ 769681
```

Extension

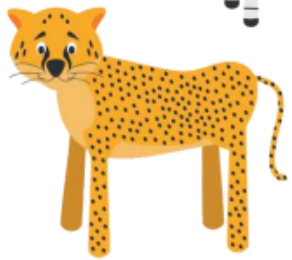
1. Amanda is displaying toys in her shop on a shelf display which is 2.48m wide. How could she arrange any of the toys below to fill the shelf, using only one of each toy? There needs to be a minimum gap of 20mm at both ends of the shelf and between each toy. Investigate different combinations of toys that can be displayed on the shelf.

2. A snail, zebra and cheetah all travel at different speeds for different durations of time.

The zebra travels at 64km per hour for $2\frac{3}{4}$ hours.

The snail travels at 50m per hour for $10\frac{3}{6}$ hours.

The cheetah travels at 1,200 metres per hour for 0.25 hours.



Explore what their combined distance is in km?

A bird flies at 148.9km per hour for $2\frac{1}{2}$ hours.

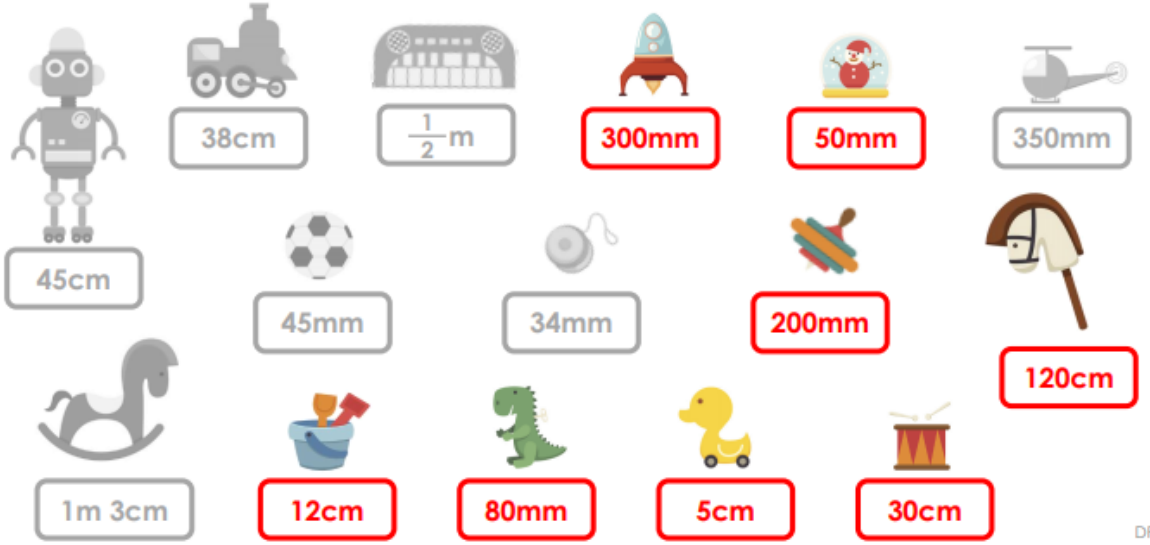
Will it travel further than the combined distance for the other 3 animals?

What is the combined distance for all 4 animals?

Extension answers

1. Amanda is displaying toys in her shop on a shelf display which is 2.48m wide. How could she arrange any of the toys below to fill the shelf, using only one of each toy? There is a minimum gap of 20mm at both edges of the shelf and between each toy.

Investigate different combinations of toys that can be displayed on the shelf.
Various possible answers, for example: This combination measures exactly 2.48m, but other answers may not be exact but will be no less than 2.4m.



2. A snail, zebra and cheetah all travel at different speeds for different durations of time.

The zebra travels at 64km per hour for $2\frac{3}{4}$ hours.

The snail travels at 50m per hour for $10\frac{3}{6}$ hours.

The cheetah travels at 1,200 metres per hour for 0.25 hours.

Explore what their combined distance is in km?
Zebra = 176km; Snail = 525m; Cheetah = 300m
Total distance covered = 176.825km

A bird flies at 148.9km per hour for $2\frac{1}{2}$ hours.

Will it travel further than the combined distance for the other 3 animals?
Yes, it will travel 372.25km

What is the combined distance for all 4 animals?
549.075km

Tuesday

Arithmetic 2

A)
```
  4713
+ 9_1_
 1_7_6
```

E)
```
  _84_
+ 1_83
  38_0
```

I)
```
  _00_
+ 9_17
 142_4
```

M)
```
 5_19
+ 963_
 149_8
```

Q)
```
 811_
+ 3_74
 118_9
```

B)
```
  1_32
+ _71_
  76_8
```

F)
```
 25_7
+ 5874
  8_5_
```

J)
```
 2_0_
+ 2140
  46_8
```

N)
```
 7_18
+ _3_2
 1430_
```

R)
```
 63_9
+ 7_18
 1395_
```

C)
```
   _1_1
+ 2_7_
  7008
```

G)
```
 1_00
+ _2_3
  239_
```

K)
```
 8_32
+ 49_5
 1323_
```

O)
```
  _4_5
+ 5_5_
  8232
```

S)
```
  _3_3
+ 613_
  8_86
```

D)
```
  95_7
+ 503_
 14_84
```

H)
```
 9_4_
+ 17_6
 10987
```

L)
```
  4979
+ 4_6_
  _4_9
```

P)
```
 8_5_
+ _5_4
 11968
```

T)
```
 2_8_
+ 75_4
 10535
```

Work out the missing numbers.
Once you think you have the numbers, do the calculation to check that it works!

Extension

1. A shop orders 3 different flavours of drinks to stock up their fridge. Each flavour comes in a different size bottle and case.

1 pint = 568ml

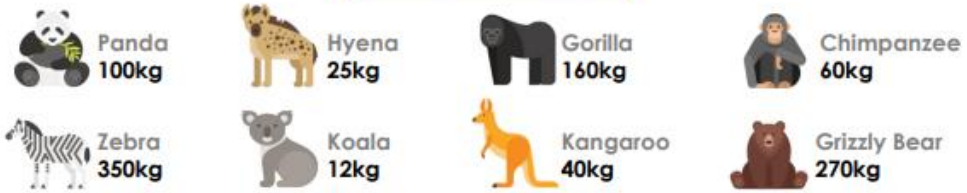
Daily Delivery

Crazy Cola	$\frac{1}{2}$ pint bottles in a case of 14 bottles
Spanta Sparkle	1 pint bottles in a case of 5 bottles
Purple Poppler	$\frac{3}{4}$ pint bottles in a case of 8 bottles

The shop orders all three flavours for 5 days. They need 15L of each flavour. Investigate the difference between what they received and what they needed.

2. Convert the animals' weights from kg to lbs.

1kg = 2.2lbs



The zoo is trying to transport the animals to another zoo. How could the animals be transported given the weight restrictions for each carriage?

Max: 300lb	Max: 600lb	Max: 700lb	Max: 800lb
2 animals	2 animals	3 animals	4 animals

Extension answers

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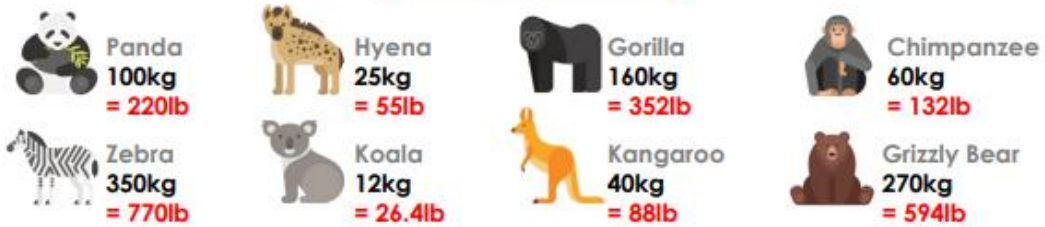
The shop orders all three flavours for 5 days. They need 15L of each flavour. Investigate the difference between what they received and what they needed.

Crazy Cola: 19,880ml (19.88L). 4,880ml (4.88L) too much.
Spanta Sparkle: 14,200ml (14.2L). 800ml (0.8L) too little.
Purple Poppler: 17,040ml (17.04L). 2,040ml (2.04L) too much.

2. Convert the animals' weights from kg to lbs.

1kg = 2.2lbs



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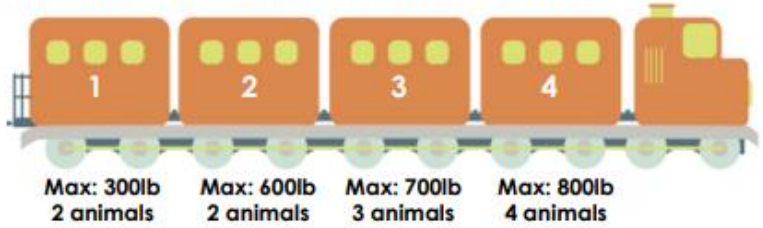

Various possible answers, for example:

1 = Panda, Hyena

2 = Gorilla, Chimpanzee

3 = Grizzly Bear, Kangaroo

4 = Zebra, Koala

Wednesday

Arithmetic 3

Extension

1. Mary wants to book a holiday in May. She needs to be back at home for work by the 27th May at 08:30 at the latest. Investigate which holidays she could book. Which is the longest holiday she can book?

Destination	Departure Time	Duration
Italy	9th May 13:50	17.5 days
Turkey	10th May 09:45	200 hours
Greece	9th May 20:45	$2\frac{1}{2}$ weeks
Morocco	11th May 11:35	480 hours
Spain	13th May 02:50	21 days 8 hours
France	19th May 21:00	175 hours

Her boss changes his mind and says that she can come back to work a week later. Which is the longest holiday she can go for now?

2. Explore and discuss the statements below.

Brad: By your 10th birthday, you will always be 3,650 days old.

Mae: 6 months is 180 days.

Sue: I am 12 years old but I have only had 3 birthdays.

Who do you agree or disagree with? Explain why.

Extension answers

1. Mary wants to book a holiday in May. She needs to be back at home for work by the 27th May at 08:30 at the latest. Investigate which holidays she could book. Which is the longest holiday she can book?

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Spain	13th May 02:50	21 days 8 hours
France	19th May 21:00	175 hours

Various possible answers, for example: She could book Italy as she would be back on 27th May 01:50. She could not book Greece as she would be back on 27th May 08:45.
Her boss changes his mind and says that she can come back to work a week later. Which is the longest holiday she can go for now?
A week later would be 3rd June so she could now go to Morocco as she would be back on 31st May at 11:35 but not to Spain as she would be back on 3rd June at 10:50.

2. Explore and discuss the statements below.

Brad: By your 10th birthday, you will always be 3,650 days old.

Mae: 6 months is 180 days.

Sue: I am 12 years old but I have only had 3 birthdays.

Who do you agree or disagree with? Explain why.
Various possible answers, for example:
I disagree with Brad as he hasn't counted the extra day during the leap years.
I disagree with Mae as the months have a different number of days and there are not 6 consecutive months that add up to exactly 180 days.
I agree with Sue as if she was born on the 29th February, which happens once every 4 years, she would only have 3 birthdays.

DP

Thursday

Arithmetic 4

A)
```
  _00_
- 19_8
-----
  3_02
```

E)
```
  5_81
-  _0_1
-------
    510
```

I)
```
  _54_
- 52_4
-------
  2_20
```

M)
```
  61_3
- 1_12
-------
  439_
```

Q)
```
  _80_
- 76_3
-------
    202
```

B)
```
  70_5
-  _122
-------
  4_7_
```

F)
```
   _6_8
- 912_
-------
   499
```

J)
```
  3581
- 32_1
-------
   300
```

N)
```
  8_7_
- 7503
-------
   970
```

R)
```
  57_9
- 457_
-------
  1_95
```

C)
```
  8_08
-  _99_
-------
  23_4
```

G)
```
  65_5
- 5870
-------
   655
```

K)
```
  6_1_
- 1668
-------
  43_0
```

O)
```
  5_24
-  _49_
-------
  30_0
```

S)
```
  3_70
- 23_5
-------
  115_
```

D)
```
   _2_4
- 1_4_
-------
   564
```

H)
```
  7_6_
-  _8_5
-------
  5952
```

L)
```
  13_8
-  _268
-------
   120
```

P)
```
  9_46
- 70_5
-------
  280_
```

T)
```
  5_36
- 55_4
-------
   222
```

Work out the missing numbers.
Once you think you have the numbers, do the calculation to check that it works!

2. A holiday camp opens at 09:00 and closes at 18:00. A family want to fit in all the activities below, as well as a 45 minute food break during the day.

Holiday Camp Activity Timetable						
Abseiling (1 hour)	Kayaking (30 mins)	Archery (15 mins)	Laser Battle (45 mins)	Quad-Biking (30 mins)	Crazy Golf (30 mins)	Caving (120 mins)
09:00	09:30	10:30	13:30	10:00	09:30	09:30
09:30	10:00	10:45	14:15	11:00	10:15	11:00
10:00	11:00	11:00	15:00	12:00	11:00	12:30
11:00	12:00	11:30	15:45	12:30	12:00	14:00
12:00	13:00	12:00	16:30	13:00	13:30	15:30
12:30	14:30	12:30		13:30	14:15	
13:30	15:30	13:30		14:00	15:00	
14:30	16:00	14:30		15:00	15:30	
15:30	16:15	15:30		16:00	16:00	
16:30	16:30	16:00		16:00	16:30	
17:00					17:00	

If the family arrive at 09:00 and it takes 5 minutes to walk between each of the activities, how can they make sure they fit everything in?

2. A holiday camp opens at 09:00 and closes at 18:00. A family want to fit in all the activities below, as well as a 45 minute food break during the day.

Holiday Camp Activity Timetable						
Abseiling (1 hour)	Kayaking (30 mins)	Archery (15 mins)	Laser Battle (45 mins)	Quad-Biking (30 mins)	Crazy Golf (30 mins)	Caving (120 mins)
09:00	09:30	10:30	13:30	10:00	09:30	09:30
09:30	10:00	10:45	14:15	11:00	10:15	11:00
10:00	11:00	11:00	15:00	12:00	11:00	12:30
11:00	12:00	11:30	15:45	12:30	12:00	14:00
12:00	13:00	12:00	16:30	13:00	13:30	15:30
12:30	14:30	12:30		13:30	14:15	
13:30	15:30	13:30		14:00	15:00	
14:30	16:00	14:30		15:00	15:30	
15:30	16:15	15:30		16:00	16:00	
16:30	16:30	16:00		16:00	16:30	
17:00					17:00	

If the family arrive at 09:00 and it takes 5 minutes to walk between each of the activities, how can they make sure they fit everything in?

Various answers, for example: Allowing time to walk between activities, they can start with kayaking 09:30-10:00, archery 10:30-10:45, caving 11:00-12:30, quad-biking 13:00-13:30, lunch 13:35-14:20, abseiling 14:30-15:30, laser battle 15:45-16:30 and crazy golf 17:00-17:30.

Friday

Arithmetic 5

A) 8_6_ − 1483 = _6_4

E) 85_5 − 6_67 = 159_

I) 72_0 − 6_45 = 385

M) 8_35 − _9_2 = 386_

Q) 3_07 − 29_3 = 74

B) 56_6 − 2_30 = 274_

F) 3384 − 3_3_ = 148

J) 9762 − 8_3_ = 11_7

N) 4_33 − 34_5 = 119_

R) 952_ − 42_7 = 5_19

C) _700 − 52_3 = 467

G) 7_13 − _2_3 = 450_

K) 45_0 − 1502 = 3_4_

O) 42_8 − 3_1_ = 731

S) 8_05 − 82_0 = 405

D) 9_15 − _8_3 = 523_

H) 865_ − 2_32 = 57_4

L) 6_70 − _1_6 = 207_

P) _7_2 − 494_ = 2_95

T) 8_0_ − 5260 = 35_3

Work out the missing numbers.
Once you think you have the numbers, do the calculation to check that it works!

Impression (what do you think about the character)	Evidence (what happens in the story or quote from the story that can back up your impression)

Arithmetic Answers

Remember to use these only once you have completed the questions for yourself – a good idea might be to get an adult to help you check your answers and to help with anywhere you went wrong!

Arithmetic 1

a) 199,208
b) 2,223,815
c) 19,534,402
d) 220475
e) 2,141,721
f) 2,008,182
g) 13,660,119
h) 148,727
i) 894,878
j) 21,584,296
k) 18,685,510
l) 219,439
m) 1,934,070
n) 27,455,344
o) 99022
p) 141186
q) 1306331
r) 16538257
s) 176,656
t) 2,520,596

Arithmetic 2

a) 13726
b) 7648
c) 7008
d) 14584
e) 3830
f) 8451
g) 2393
h) 10987
i) 14224
j) 4648
k) 13237
l) 9439
m) 14958
n) 14300
o) 8232
p) 11968
q) 11889
r) 13957
s) 8486
t) 10535

Arithmetic 3

Arithmetic 4

a) 3002
b) 4973
c) 2314
d) 564
e) 510
f) 499
g) 655
h) 5952
i) 2320
j) 300
k) 4350
l) 120
m) 4391
n) 970
o) 3030
p) 2801
q) 202
r) 1195
s) 1155
t) 222

Arithmetic 5

a) 6684
b) 2746
c) 467
d) 5232
e) 1598
f) 148
g) 4500
h) 5724
i) 385
j) 1127
k) 3048
l) 2074
m) 3863
n) 1198
o) 731
p) 2795
q) 74
r) 5319
s) 405
t) 3543