

# Mathematics

## Week 1 Term 4

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STAGE 3





# Set up of Week 1 Maths

- Hi Stage 3,
- We have tried to set your Maths work up a little differently. You will notice that each slide has a star.
- Just like at school, sometimes we need to complete work differently to other students to make sure we are working on a skill that will help you continue to learn and grow.
- Your teacher will be in contact with you if you are to work on the 1 star or 3 star activities.
- If you feel the 2 star activities are too hard, please attempt the 1 star activity. If you feel the 2 star activity is too easy please attempt the 3 star activity.



# FRIDAY

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- ❖ Daily NAPLAN Question
  - ❖ Division time challenge.
    - ❖ 1-star activity
    - ❖ 2-star activity
    - ❖ 3-star activity
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# NAPLAN Question

Cilla has 35 twenty-cent coins in her purse.



How much money does she have altogether?

\$70

\$35.20

\$35

\$7

# Division Time Challenge

Number of Questions: **50**

Testing: **3x, 4x, 5x, 6x, 7x, 8x, 9x, 10x, 11x, 12x (inverse)**

$9 \div 9 = \underline{\quad}$	$18 \div 9 = \underline{\quad}$	$55 \div 11 = \underline{\quad}$
$30 \div 10 = \underline{\quad}$	$42 \div 7 = \underline{\quad}$	$99 \div 11 = \underline{\quad}$
$20 \div 5 = \underline{\quad}$	$25 \div 5 = \underline{\quad}$	$100 \div 10 = \underline{\quad}$
$18 \div 3 = \underline{\quad}$	$88 \div 11 = \underline{\quad}$	$60 \div 5 = \underline{\quad}$
$35 \div 5 = \underline{\quad}$	$96 \div 12 = \underline{\quad}$	$32 \div 8 = \underline{\quad}$
$70 \div 7 = \underline{\quad}$	$60 \div 12 = \underline{\quad}$	$30 \div 6 = \underline{\quad}$
$8 \div 8 = \underline{\quad}$	$132 \div 11 = \underline{\quad}$	$10 \div 5 = \underline{\quad}$
$5 \div 5 = \underline{\quad}$	$108 \div 9 = \underline{\quad}$	$40 \div 5 = \underline{\quad}$
$12 \div 12 = \underline{\quad}$	$12 \div 6 = \underline{\quad}$	$3 \div 3 = \underline{\quad}$
$36 \div 6 = \underline{\quad}$	$66 \div 6 = \underline{\quad}$	$56 \div 7 = \underline{\quad}$
$110 \div 11 = \underline{\quad}$	$77 \div 7 = \underline{\quad}$	$8 \div 4 = \underline{\quad}$
$144 \div 12 = \underline{\quad}$	$24 \div 8 = \underline{\quad}$	$27 \div 3 = \underline{\quad}$
$21 \div 7 = \underline{\quad}$	$50 \div 10 = \underline{\quad}$	$49 \div 7 = \underline{\quad}$
$50 \div 5 = \underline{\quad}$	$44 \div 4 = \underline{\quad}$	$48 \div 8 = \underline{\quad}$
$48 \div 6 = \underline{\quad}$	$27 \div 9 = \underline{\quad}$	$121 \div 11 = \underline{\quad}$
$72 \div 12 = \underline{\quad}$	$12 \div 4 = \underline{\quad}$	$10 \div 10 = \underline{\quad}$

- Put on a timer/ stopwatch for 10 minutes and complete as many questions as possible in the time.
- Note down your time and try and challenge yourself to better your time each day! 😊

# 1-Star Activity

- ❖ You may choose to just complete question 1 or 1 and 2.

NIT 26
4-digit division

**1** You may need to work out these algorithms on paper first before recording your answers. Record all remainders as fractions.

a  $4 \overline{)4936}$

f  $3 \overline{)7035}$

k  $5 \overline{)7595}$

b  $3 \overline{)7269}$

g  $6 \overline{)3645}$

l  $8 \overline{)6846}$

c  $5 \overline{)7680}$

h  $7 \overline{)7456}$

m  $6 \overline{)7477}$

d  $5 \overline{)7115}$

i  $6 \overline{)8576}$

n  $7 \overline{)6974}$

e  $4 \overline{)8544}$

j  $4 \overline{)8648}$

o  $8 \overline{)3542}$

**Jim saved \$3735 in 3 years. What was his average saving per year?**

$$\begin{array}{r} 1245 \\ 3 \overline{)3735} \end{array}$$

**SUPER QUESTION**

p  $8 \overline{)96898728}$

**2** Calculate the average distance between railway stops over 1728 km.

a If the train stopped at 4 stations, what would be the average distance between stops? \_\_\_\_\_


b If the train stopped at 8 stations, what would be the average distance between stops? \_\_\_\_\_

c How many kilometres would make up the remainder if the train journey was averaged out over 5 stops? \_\_\_\_\_

**3** Solve the problems.

a Peta's group won \$39.63. If there are 2 other girls besides Peta, how much did they each win?	d 540 children attend St John's School. If 135 are in lower primary and 241 are in middle primary, how many are in upper primary?
b Jim needs to cut four 1.79 m lengths of timber. Will he be able to cut them from a length of timber measuring 7 m?	e Nicholas saved \$3.55 a week for 9 weeks. How much more would he need to save to buy a camera worth \$34?
c Lauren saved \$512 over a period of 8 weeks. What was her average saving per week?	f Kim is upset because $\frac{3}{5}$ of her class of 30 are boys. How many children in Kim's class are girls?

# 2-Star Activity



## 4-digit division

UNIT 23


Divide \$8648 among three people.

<p>Share out the thousands with each person getting 2.</p> $\begin{array}{r} 2 \\ 3 \overline{) \$8648} \end{array}$	<p>Trade the 2 thousand for 20 hundreds. Share out the 26 hundreds with each person getting 8.</p> $\begin{array}{r} 28 \\ 3 \overline{) \$8^2 648} \end{array}$	<p>Trade the 2 hundreds left over for 20 tens. Now share the 24 tens. Each person gets 8.</p> $\begin{array}{r} 288 \\ 3 \overline{) \$8^2 6^2 48} \end{array}$	<p>Now share the 8 ones. Each person gets 2 with <math>\frac{2}{3}</math> remainder.</p> $\begin{array}{r} 2882\frac{2}{3} \\ 3 \overline{) \$8648} \end{array}$
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**1** Complete the divisions writing any remainders as fractions.

a $4 \overline{) 8488}$	f $5 \overline{) 4655}$	k $4 \overline{) 7772}$	p $10 \overline{) 3890}$	u $10 \overline{) 6790}$
b $5 \overline{) 7555}$	g $4 \overline{) 5056}$	l $5 \overline{) 7675}$	q $10 \overline{) 7960}$	v $10 \overline{) 8785}$
c $3 \overline{) 4869}$	h $3 \overline{) 3678}$	m $6 \overline{) 6894}$	r $10 \overline{) 8750}$	w $10 \overline{) 6795}$
d $6 \overline{) 3642}$	i $7 \overline{) 8547}$	n $7 \overline{) 854}$	s $10 \overline{) 6870}$	x $10 \overline{) 8765}$
e $9 \overline{) 7389}$	j $8 \overline{) 9928}$	o $9 \overline{) 5679}$	t $10 \overline{) 8870}$	y $10 \overline{) 6993}$

**2** Find the averages.


<p>a Jackson banked a total amount of \$7655 over a 5-week period. What was his average weekly saving? _____</p> <p>b Sally's monthly savings were \$167, \$175, \$200 and \$250. What was her average monthly saving? _____</p> <p>c Jack laid the following amounts of bricks over 6 days: 323, 324, 234, 450, 234 and 307. What was the average amount of bricks he laid per day? _____</p> <p>d How much money did Maria collect if her average collection was \$45.60 per day and she collected money for 5 days? _____</p> <p>e A bus travelled 2457 km and made 9 stops. What was the average distance between stops? _____</p> <p>f Seven boys collected, then shared, a bag of 1064 matches. How many matches did each boy receive? _____</p>	<div style="border: 1px solid gray; border-radius: 10px; padding: 5px; width: fit-content;"> <p>Averages are found by totalling the scores then dividing by the number of scores.</p> </div> 
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**SUPER QUESTION**

**3** In a full week of 7 days a taxi drove 4032 km.

a What was the average distance driven per day? \_\_\_\_\_

b What was the average cost of petrol per day if the taxi averaged 12 km per litre and each litre cost 60 cents? \_\_\_\_\_



# 3-Star Activity

5-digit division **UNIT 35**


**1** Solve the divisions. Write all remainders as fractions.

a  $4 \overline{)3548}$     b  $3 \overline{)1365}$     c  $4 \overline{)5064}$     d  $5 \overline{)4375}$     e  $7 \overline{)4018}$   
 f  $5 \overline{)2325}$     g  $8 \overline{)7664}$     h  $9 \overline{)9543}$     i  $9 \overline{)6148}$     j  $4 \overline{)3852}$   
 k  $7 \overline{)52794}$     l  $9 \overline{)14337}$     m  $6 \overline{)47857}$     n  $8 \overline{)19976}$     o  $5 \overline{)44897}$   
 p  $2 \overline{)19733}$     q  $7 \overline{)26938}$     r  $4 \overline{)89535}$     s  $6 \overline{)49977}$     t  $9 \overline{)61499}$


**2** Solve the problems.

a	On Friday afternoon Mr Cook placed 192 children into 6 equal teams. How many children were in each team?	_____
b	There were 336 oranges packed neatly into 7 boxes. How many oranges were in each box?	_____
c	A nursery had 1544 roses planted in 8 equal rows. How many roses were in each row?	_____
d	Nine people shared a winning prize of \$97 920. How much money would each person's share be worth?	_____
e	Jill filled a jug with juice and poured 8 equal drinks from it. How much was in each drink if there was 1400 mL in the jug?	_____
f	Jason bought 6 bunches of roses for Mother's Day. About how much did he pay for each bunch of roses if they cost him \$177.30?	_____


**SUPER QUESTION**




5 note pads  
for \$22.00



6 pens for  
\$12.90



3 CDs for  
\$76.50



4 staplers  
for \$15.80

**3** Calculate how much you would pay for the following. (You will need note paper.)

a 7 note pads = \$ \_\_\_\_\_    c 5 CDs = \$ \_\_\_\_\_    e 7 pens = \$ \_\_\_\_\_  
 b 10 pens = \$ \_\_\_\_\_    d 7 staplers = \$ \_\_\_\_\_    f 9 note pads = \$ \_\_\_\_\_

**4** How much change would you get from \$50 if you bought 5 staplers? \$ \_\_\_\_\_

Division with fractional remainders **UNIT 6**

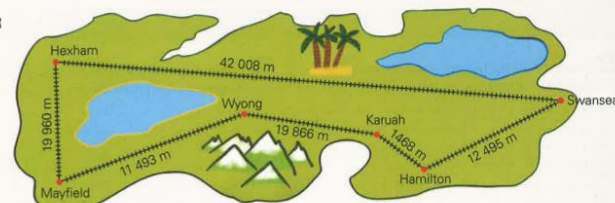
**Changing remainders into common fractions**  
 Remainders can be written as a common fraction by putting the remainder over the divisor. In this division the remainder of 1 is put over the divisor of 4 to become  $\frac{1}{4}$ .

$4 \overline{)25} \cdot \overset{6r1}{\text{becomes } 6\frac{1}{4}}$

**1** Complete these divisions writing the remainders as a fraction.

a  $3 \overline{)425}^0$     b  $4 \overline{)5657}$     c  $5 \overline{)6557}$     d  $6 \overline{)7874}$     e  $5 \overline{)7867}$   
 f  $6 \overline{)7523}$     g  $4 \overline{)5678}$     h  $5 \overline{)7397}$     i  $3 \overline{)5477}$     j  $6 \overline{)7690}$   
 k  $6 \overline{)8352}$     l  $7 \overline{)9357}$     m  $6 \overline{)8542}$     n  $7 \overline{)8494}$     o  $8 \overline{)9613}$   
 p  $8 \overline{)97549}$     q  $7 \overline{)85591}$     r  $6 \overline{)72675}$     s  $5 \overline{)74298}$     t  $6 \overline{)86744}$   
 u  $5 \overline{)85467}$     v  $6 \overline{)82598}$     w  $7 \overline{)93549}$     x  $8 \overline{)96707}$     y  $7 \overline{)83856}$

**HUNTER ISLAND**



**2** What is the average distance between the stops if:

a the train stops 4 times between Hexham and Mayfield? \_\_\_\_\_ m  
 b the train stops 9 times between Mayfield and Wyong? \_\_\_\_\_ m  
 c the train stops 8 times between Hexham and Swansea? \_\_\_\_\_ m  
 d the train stops 3 times between Wyong and Karuah? \_\_\_\_\_ m  
 e the train stops 7 times between Hamilton and Swansea? \_\_\_\_\_ m

**SUPER QUESTION**

**3** Divide a 2, 3, 4 and 5-digit number by 6. Each answer must have a remainder of  $\frac{1}{6}$ .

a  $6 \overline{) \square \square \square \square \square \square}^{\frac{1}{6}}$     b  $6 \overline{) \square \square \square \square}^{\frac{1}{6}}$     c  $6 \overline{) \square \square \square \square}^{\frac{1}{6}}$     d  $6 \overline{) \square \square \square \square}^{\frac{1}{6}}$