

STEP IT UP!

MATHS 6

SAMPLE PAGES

MATHS MENTALS &
PRACTICE FOR HOME

KEVIN ORCHARD

STEP IT UP!

MATHS 6

A DOUBLE-SIDED WORKSHEET SAMPLE...

Each worksheet includes mental maths practice. Encourage your child to work these out in his or her head.

Each worksheet provides practice across all 3 strands of the Australian Curriculum.

NAME _____

MENTAL MATHS

ADDITION & SUBTRACTION

4 + 8 = 6 + = 13 9 - 2 = 6 × 9 = × 6 = 48 14 ÷ 7 =

2 + 5 = + 5 = 12 11 - 4 = 7 × 6 = 6 × = 0 28 ÷ 7 =

5 + 3 = 9 + = 35 13 - 8 = 6 × 3 = × 6 = 36 63 ÷ 7 =

4 + 7 = 8 + = 15 8 - 3 = 5 × 6 = 11 × 6 = 49 ÷ 7 =

9 + 3 = + 12 = 20 10 - 6 = 10 × 6 = × 4 = 24 42 ÷ 7 =

NUMBER & PLACE VALUE

1 a. Work out the total cricket runs scored by each player.

Player	Nov.	Dec.	Jan.	TOTAL
Jason	285	178	314	
Peter	309	196	254	
Ruby	260	295	236	
Tom	116	159	203	
Max	283	316	345	

b. At the end of February, the season totals were calculated. Use the above totals to work out the player's scores for February.

Player	February	Season Total
Jason		1080
Peter		962
Ruby		1124
Tom		631
Max		1279

MONEY & FINANCIAL MATHEMATICS

2 Work out the total cost in your head. Then write a number sentence to show how you added.

• \$2.55 + • \$3.47 = \$

• \$1.48 + • \$2.60 = \$

3 Work out the change in your head. Then draw jumps to show your thinking.

\$100 - \$87.50 = \$

\$100 - \$33.60 = \$

\$50 - \$36.80 = \$

\$20 - \$4.35 = \$

4 Calculate the change in your head.

\$100 - \$41.80 = \$ \$50 - \$16.30 = \$

\$20 - \$7.20 = \$ \$50 - \$33.90 = \$

\$100 - \$65.80 = \$ \$20 - \$8.65 = \$

TESTER

Write one digit in each box to make these algorithms correct.

7	8	5	0
+	9	-	4
8	0	3	8

Write your answers in the boxes.

ON REVERSE...

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Helpful information is provided about a key idea on the worksheet.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

a. Measure and write the length of each pencil in millimetres and as a decimal fraction of a metre.

A mm = m

B mm = m

C mm = m

D mm = m

E mm = m

b. When each pencil is sharpened it loses 9 mm. Write the new lengths in mm.

A mm B mm C mm

D mm E mm

SHAPE

a. Draw a P on the prisms.

b. What are the features of a prism?

7 a. Draw a P on the parallelograms.

b. What are the features of a parallelogram?

STATISTICS & PROBABILITY

DATA REPRESENTATION & INTERPRETATION

8 Student Heights

Student	Height (cm)	Height (m)
Grace		
Billy		
Jack		
Tegan		
Jason		
Mia		
Julie		

Write each student's height in 2 different ways.

Write one digit in each box to make these algorithms correct.

7	8	5	0
+	9	-	4
8	0	3	8

Write your answers in the boxes.

PARENT/CARER SIGNATURE _____

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Each worksheet provides practice for the questions in the national tests. In Year 6, these questions will help prepare your child for the testing that takes place at the beginning of Year 7.

THIS BOOK ALSO INCLUDES:

- A review after every 8 worksheets to help you check if your child is retaining the knowledge and skills they have learned and practised
- A glossary of mathematics terms
- Colourful stickers that your child can use to label his or her books.

ADDITION & SUBTRACTION

$4 + 8 = \square$

$6 + \square = 13$

$9 - 2 = \square$

$2 + 5 = \square$

$\square + 5 = 12$

$11 - 4 = \square$

$5 + 3 = \square$

$9 + \square = 13$

$13 - 8 = \square$

$4 + 7 = \square$

$8 + \square = 15$

$8 - 3 = \square$

$9 + 3 = \square$

$\square + 12 = 20$

$10 - 6 = \square$

MULTIPLICATION & DIVISION

$6 \times 9 = \square$

$\square \times 6 = 48$

$14 \div 7 = \square$

$7 \times 6 = \square$

$6 \times \square = 0$

$28 \div 7 = \square$

$6 \times 3 = \square$

$\square \times 6 = 36$

$63 \div 7 = \square$

$5 \times 6 = \square$

$11 \times 6 = \square$

$49 \div 7 = \square$

$10 \times 6 = \square$

$\square \times 4 = 24$

$42 \div 7 = \square$

NUMBER & PLACE VALUE

- 1 a.** Work out the total cricket runs scored by each player.



Player	Nov.	Dec.	Jan.	TOTAL
Jason	285	178	314	
Peter	309	196	254	
Ruby	260	295	236	
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- b.** At the end of February, the season totals were calculated. Use the above totals to work out the player's scores for February.

Player	February	Season Total
Jason		1080
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Ruby		1124
Tom		631
Max		1279

MONEY & FINANCIAL MATHEMATICS

- 2** Work out the total cost in your head. Then write a number sentence to show how you added.

$$\bullet \$2.55 + \bullet \$3.47 = \$ \square$$

$$\bullet \$1.48 + \bullet \$2.60 = \$ \square$$

$$\bullet \$4.59 + \bullet \$3.70 = \$ \square$$

$$\bullet \$3.96 + \bullet \$11.47 = \$ \square$$

- 3** Work out the change in your head. Then draw jumps to show your thinking.

$$\$100 - \$87.50 = \$ \square$$



$$\$100 - \$33.60 = \$ \square$$



$$\$50 - \$36.80 = \$ \square$$



$$\$20 - \$4.35 = \$ \square$$



- 4** Calculate the change in your head.

$$\$100 - \$41.80 = \$ \square$$

$$\$50 - \$16.30 = \$ \square$$

$$\$20 - \$7.20 = \$ \square$$

$$\$50 - \$33.90 = \$ \square$$

$$\$100 - \$65.80 = \$ \square$$

$$\$20 - \$8.65 = \$ \square$$





You can use a **round-and-adjust** strategy when adding amounts close to a whole dollar. For example, when you see $\$3.48 + \1.99 think $\$3.50 + \2 less 3c.


USING UNITS OF MEASUREMENT

- 5 a. Measure and write the length of each pencil in **millimetres** and as a decimal fraction of a **metre**.

A 
mm = m

B 
mm = m

C 
mm = m

D 
mm = m

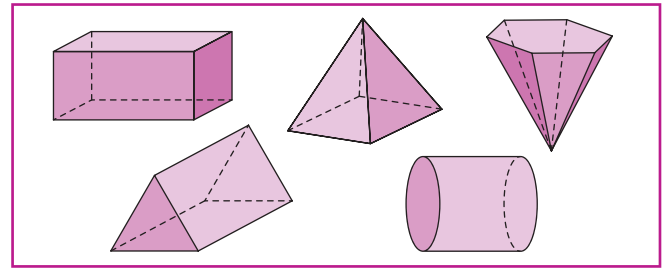
E 
mm = m

- b. When each pencil is sharpened it loses 9 mm. Write the new lengths in mm.

A B C
D E

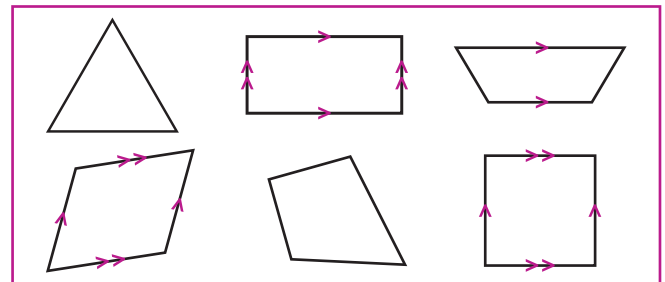
SHAPE

- 6 a. Draw a **P** on the prisms.



- b. What are the features of a prism?

- 7 a. Draw a **P** on the parallelograms.

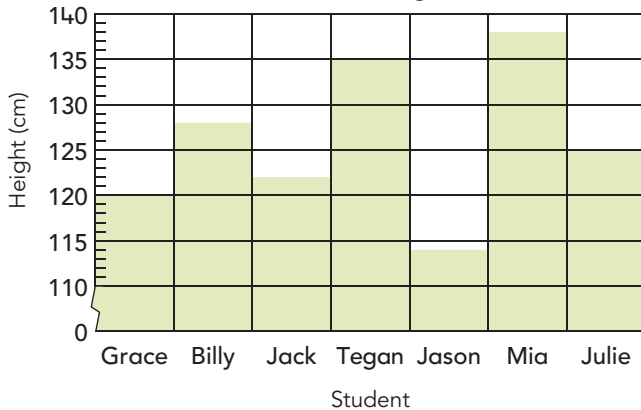


- b. What are the features of a parallelogram?

DATA REPRESENTATION & INTERPRETATION

8

Student Heights



Write each student's height in 2 different ways.

Student	Height (cm)	Height (m)
Grace		
Billy		
Jack		
Tegan		
Jason		
Mia		
Julie		

Write one digit in each box to make these algorithms correct.

$$\begin{array}{r} 7 \square 8 \\ + \quad 9 \square \\ \hline 804 \end{array}$$

$$\begin{array}{r} 50\square \\ - \square 45 \\ \hline 3\square 8 \end{array}$$

Write your answers in the boxes.

