

MATH PRACTICE AND PAPER BOOK



GRADE 7 CAPS

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Index

	Exercises	Answers	
1	Counting numbers	2	154
2	Exponents	21	166
3	Geometry of straight lines	24	167
4	Constructions	25	168
5	Geometry of 2D shapes	36	176
6	Common fractions	40	177
7	Decimal fractions	49	183
8	Functions and relationships	52	185
9	Area and perimeter of 2D shapes	54	186
10	Surface area and volume of 3D objects	61	191
11	Numerical and geometric patterns	66	194
12	Algebraic expressions	71	196
13	Algebraic equations	75	198
14	Graphs	81	201
15	Transformation geometry	83	202
16	Geometry of 3D objects	89	207
17	Integers	93	207
18	Collect, organize, and summarize data	97	210
19	Represent data	101	212
20	Interpret, analyse, and report data	107	215
21	Probability	111	216
	Practice paper term 1	112	217
	Practice paper term 2	127	224
	Practice paper term 3	135	229
	Practice paper term 4	145	233

EXERCISE 1: COUNTING NUMBERS

1. Write the place value of each number in 22 832 698,38.

2. Write the number value of each number in 987 535 236,251.

3. Write 669 526 285,365 in extended notation.

4. Round off to the nearest 5.

4.1 369 5611 353 : _____

4.2 365 152 566 : _____

4.3 222 333 111 : _____

4.4 369 199 234 : _____

4.5 999 999 987 : _____

5. Round off to the nearest 10.

5.1 325 211 539 : _____

5.2 369 221 325 : _____

5.3 365 235 236 : _____

5.4 369 846 221 : _____

5.5 444 555 237 : _____

6. Round off to the nearest 1 000.

6.1 36 297 539 : _____

6.2 99 986 325 : _____

6.3 236 523 232 : _____

6.4 253 212 221 : _____

6.5 365 236 237 : _____

EXERCISE 2: EXPONENTS

1. Write in extended notation:

1.1 $2^4 =$ _____

1.2 $4^5 =$ _____

1.3 $3^6 =$ _____

1.4 $5^8 =$ _____

1.5 $10^3 =$ _____

2. Write in exponential notation:

2.1 $5 \times 5 \times 5 \times 5 \times 5 \times 5 =$ _____

2.2 $9 \times 9 \times 9 =$ _____

2.3 $8 \times 8 \times 8 \times 8 =$ _____

2.4 $10 \times 10 =$ _____

2.5 $5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 =$ _____

3. Calculate:

3.1 $4^2 =$ _____

3.2 $3^3 =$ _____

3.3 $5^2 =$ _____

3.4 $6^2 =$ _____

3.5 $2^3 =$ _____

3.6 $\sqrt{36} =$ _____

3.7 $\sqrt[3]{64} =$ _____

3.8 $\sqrt{25} =$ _____

3.9 $\sqrt[3]{8} =$ _____

3.10 $\sqrt{100} =$ _____

4. Replace \square with $<$, $>$ or $=$:

4.1 $2^3 \square 3^2$

4.2 $8^2 \square 4^3$

4.3 $3^2 \square 3^3$

4.4 $9^2 \square 9^3$

4.5 $3^1 \square 1^3$

4.6 $\sqrt{36} \square \sqrt[3]{64}$

4.7 $\sqrt{25} \square \sqrt[3]{125}$


4.8 $\sqrt{64} \square \sqrt[3]{64}$

4.9 $\sqrt{9} \square \sqrt[3]{8}$

4.10 $\sqrt{36} \square \sqrt[3]{27}$

EXERCISE 3: GEOMETRY OF STRAIGHT LINES

1. Name the following:

1.1 

1.2 

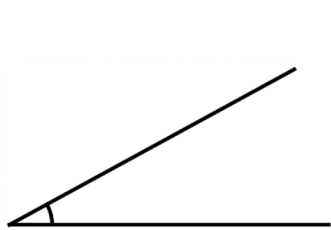
2. Draw $CD \perp EF$:

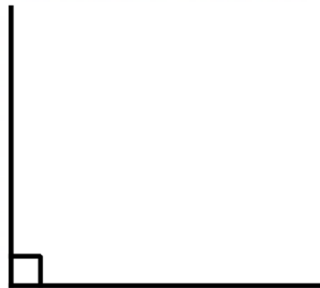
3. Draw $AB \parallel CD$:

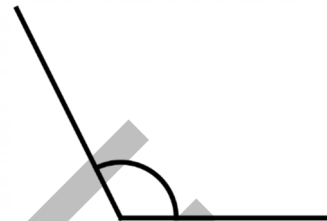
EXAMPLE

EXERCISE 4: CONSTRUCTIONS

1. Write the name of each angle below the relevant sketch.



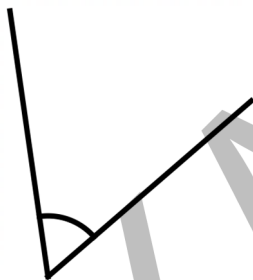






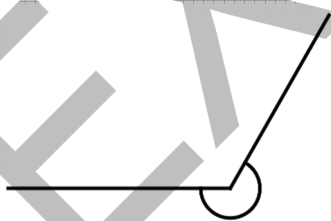


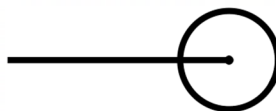










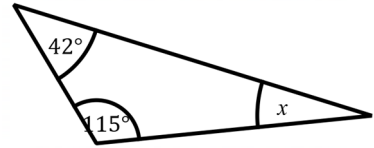




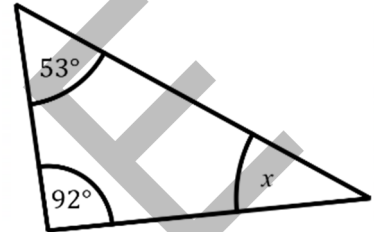
EXERCISE 5: GEOMETRY OF 2D SHAPES

1. Calculate the missing angle(s) in each of the following cases:

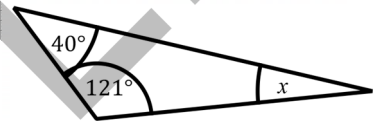
1.1 _____



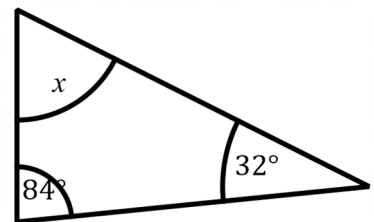
1.2 _____



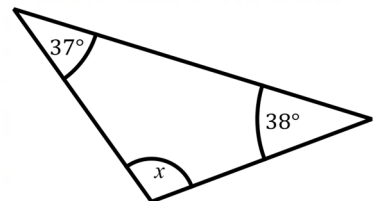
1.3 _____



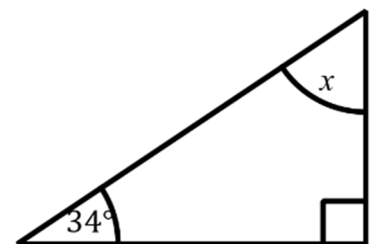
1.4 _____



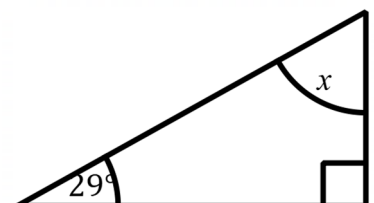
1.5 _____



1.6 _____



1.7 _____



EXERCISE 6: COMMON FRACTIONS

1. Complete with $<$, $>$ or $=$:

$\frac{2}{3}$		$\frac{3}{4}$
$\frac{2}{3}$		$\frac{4}{7}$
$\frac{1}{2}$		$\frac{7}{9}$
$\frac{10}{11}$		$\frac{4}{7}$
$\frac{1}{5}$		$\frac{2}{10}$

2. Give an equivalent fraction for:

2.1 $\frac{4}{5} = \underline{\hspace{2cm}}$

2.2 $\frac{2}{5} = \underline{\hspace{2cm}}$

2.3 $\frac{1}{4} = \underline{\hspace{2cm}}$

2.4 $\frac{3}{10} = \underline{\hspace{2cm}}$

2.5 $\frac{5}{8} = \underline{\hspace{2cm}}$

3. Write the following mixed numbers as improper fractions:

3.1 $5\frac{1}{2} = \underline{\hspace{2cm}}$

3.2 $4\frac{1}{3} = \underline{\hspace{2cm}}$

3.3 $3\frac{1}{4} = \underline{\hspace{2cm}}$

3.4 $4\frac{1}{2} = \underline{\hspace{2cm}}$

3.5 $5\frac{1}{4} = \underline{\hspace{2cm}}$

EXERCISE 7: DECIMAL FRACTIONS

1. Write the following fractions as decimals:

1.1 $\frac{1}{5} =$ _____

1.2 $\frac{1}{8} =$ _____

1.3 $\frac{3}{4} =$ _____

1.4 $\frac{3}{8} =$ _____

1.5 $\frac{3}{10} =$ _____

2. Write the following decimals as fractions:

2.1 0,6 = _____

2.2 0,25 = _____

2.3 0,36 = _____

2.4 0,005 = _____

2.5 0,668 = _____

3. Arrange in ascending order:

3.1 0,6; 0,06; 6; 0,66; 0,066

3.2 0,83; 8,3; 0,083; 0,883

4. Arrange in descending order:

4.1 8,53; 0,853; 0,0853; 0,08

4.2 0,24; 0,42; 4,2; 2,4

5. Round off to two decimal places:

5.1 8,536: _____

5.2 9,685: _____

5.3 10,351: _____

5.4 11,892: _____

5.5 135,3698: _____

EXERCISE 8: FUNCTIONS AND RELATIONSHIPS

1. Complete the following:

Input	Rule	Output
8	$\times \frac{1}{2}$ $+ 2\frac{1}{2}$	
10		
12		
14		

2. Complete the following:

Input	Rule	Output
	$\times \frac{1}{2}$ $+ 2\frac{1}{2}$	7
		9
		11
		13

3. Complete the following:

Input	Rule	Output
1	$\times \frac{1}{2}$ $+ 2\frac{1}{2}$	5
2		7
3		9
4		11

4. Complete the following:

Input	Rule	Output
1	$\times \frac{1}{2}$ $+ 2\frac{1}{2}$	10
2		8
3		6
4		4

EXERCISE 9: AREA AND PERIMETER OF 2D SHAPES

1. Determine the perimeter and area of each of the following shapes:

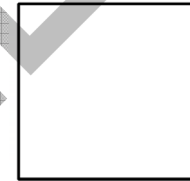
1.1

4 cm



1.2

3 cm



1.3

5 cm



1.4

6 cm



1.5

2 cm





Kopiereg 2023

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