OPERATIONS WITH WHOLE NUMBERS

A ADDITION	C MULTIPLICATION
A.1 SOLVING REAL-WORLD PROBLEMS	C.1 SOLVING REAL-WORLD PROBLEMS
Ex 1: Emma collected 3112 postcards, and her sister gave her 2458 more. How many postcards does Emma have in total?	Ex 9: Each day, my meal costs \$5. What is the total cost in a year (365 days)?
Ex 2: In a car race, Car A traveled 18 432 kilometers, and Car B traveled 22 516 kilometers. How many kilometers did they travel in total? kilometers Ex 3: A charity event collected 25 670 dollars on the first day and 34 859 dollars on the second day. How much money was collected in total? dollars Ex 4: An orchard produced 43 215 apples and 21 638 pears this season.	Total cost = dollars Ex 10: In a school, there are 240 students. Each student needs 12 books. How many books are needed in total? Total books = Ex 11: A library has 245 books on each shelf. If the library has 25 shelves, how many books does it have in total? Total books = Ex 12: I do 20 Maths exercises per week. How many exercises do I do in a year (52 weeks)? Total exercises = Total exercises =
How many fruits were harvested in total?	D DIVISION
fruits	D.1 SOLVING REAL-WORLD PROBLEMS
B SUBTRACTION	Ex 13: A baker packs 42 cookies into boxes. Each box holds 3 cookies. How many full boxes does the baker have?
B.1 SOLVING REAL-WORLD PROBLEMS	boxes
Ex 5: You buy an article for 137 dollars. You give the seller a 200 dollar bill. How much change will you get back?	How many cookies will be left over? cookies
dollars	Ex 14: 6 pirates share equally a treasure of 200 golden coins. How many coins does each pirate receive? How many coins remain?
Ex 6: Hugo has 120 Pokémon cards, and Louis has 80 Pokémon cards. What is the difference in the number of cards they have?	$\begin{array}{c} \text{Coins per pirate} = \boxed{} \text{ coins} \\ \text{Leftover coins} = \boxed{} \text{ coins} \end{array}$
$\begin{tabular}{ c c c c c } \hline & & & & \\ \hline & & & & \\ \hline & & & & \\ \hline & &$	Ex 15: A teacher distributes 250 candies equally among 12 children. How many candies does each child receive? How many candies remain?
than Louis. How many cards does Louis have?	Candies per child =
Ex 8: Emma has 425 stickers. She gives 189 stickers to her friend.	Ex 16: An art supply store has 456 pencils. They want to pack these pencils equally into boxes containing 20 pencils each. How many full boxes can be filled? How many pencils remain?
How many stickers does Emma have left?	$Full\ boxes = \boxed{\hspace{1cm}boxes}$

E ORDER OF OPERATIONS

E.1 PERFORMING MULTI-OPERATIONS

Ex 17:

$$4 + 2 \times (2 + 3) =$$

Ex 18:

$$10 - 2 \times (5 - 3) =$$

Ex 19:

$$3 \times (7-2) + 1 =$$

Ex 20:

$$12 \div (6-2) + 3 =$$

Ex 21:

$$(2+8) \div 5 - 2 = \boxed{}$$

F SOLVING PROBLEMS

F.1 BUILDING THE EXPRESSION

MCQ 22: A farmer has 3 fields, and each field contains 10 apple trees. If each tree produces 8 apples, what is the total number of apples?

Choose the correct expression

 \square 3 + 10 × 8

 \square 3 × 10 × 8

 \Box $(10 \times 8) \div 3$

MCQ 23: A library has 50 books. 14 books are loaned out. The remaining books are then placed equally on 4 shelves. How many books are on each shelf?

Choose the correct expression

 $\Box 50 - (14 \div 4)$

 $\Box 50 + 14 \div 4$

 \Box (50 - 14) ÷ 4

MCQ 24: A baker makes 5 trays of cookies, with 12 cookies on each tray. He sells 40 cookies. How many cookies are left? Choose the correct expression

 $\Box (5 \times 12) - 40$

 $\Box 5 \times (12 - 40)$

 $\Box 5 + 12 - 40$

MCQ 25: Sam has 20 dollars. He buys 3 notebooks that cost 4 dollars each. He then finds 5 dollars. How much money does he have now?

Choose the correct expression

$$\Box 20 - 3 + 4 + 5$$

$$\square \ 20 - (3 \times 4) + 5$$

$$\Box (20-3) \times 4 + 5$$

MCQ 26: There are 30 students in a class. Today, 2 students are absent. The teacher divides the remaining students into 4 equal teams for a game. Which expression shows the number of students on each team?

Choose the correct expression

$$\Box 30 - 2 \div 4$$

$$\Box (30-2) \div 4$$

$$\square$$
 30 ÷ 4 – 2

MCQ 27: For a school bake sale, Maria bakes 4 batches of 12 cookies. At the same time, John bakes 3 batches of 10 cookies. Which expression represents the total number of cookies they baked together?

Choose the correct expression

$$\Box \ 4 + 12 \times 3 + 10$$

$$\Box$$
 (4+3) × (12+10)

$$\Box \ (4 \times 12) + (3 \times 10)$$

MCQ 28: Leo starts with 5 bags of marbles, and each bag contains 10 marbles. He loses 8 marbles during a game. Which expression shows how many marbles Leo has left?

Choose the correct expression

 \Box 5 × (10 + 8)

 $\Box (5 \times 10) - 8$

 $\Box 5 + 10 - 8$

F.2 SOLVING REAL-WORLD PROBLEMS

Ex 29: Hugo is 5 years old. Louis is twice as old as Hugo, plus 3 years. What is the age of Louis?

Louis is _____ years old.

Ex 30: A zoo houses 15 animals in the morning. Throughout the day, 5 new animals are admitted. In the evening, the zookeeper divides the total number of animals into 5 equal groups. How many animals are in each group?

There are animals in each group.

Ex 31: Hugo has 12 pencils. He gives 3 pencils to each of his 2 friends and then purchases 5 more. What is the final number of pencils Hugo possesses?

Hugo possesses pencils.

Ex 32: You have 3 apples, you purchase 5 more, and then you share the total quantity equally with a friend. How many apples are left?

You retain apples.