OPERATIONS WITH WHOLE NUMBERS

A ADDITION

A.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 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.

How many fruits were harvested in total?

fruits

B SUBTRACTION

B.1 SOLVING REAL-WORLD PROBLEMS

Ex 5: You buy an article for 137 dollars. You give the seller a 200 dollar bill.

How much change will you get back?



Ex 6: Hugo has 120 Pokémon cards, and Louis has 80 Pokémon cards.

What is the difference in the number of cards they have?

cards

Ex 7: Hugo has 265 Pokémon cards. He has 187 more cards than Louis.

How many cards does Louis have?

cards

Ex 8: Emma has 425 stickers. She gives 189 stickers to her friend.

How many stickers does Emma have left?



C MULTIPLICATION

C.1 SOLVING REAL-WORLD PROBLEMS

Ex 9: Each day, my meal costs \$5. What is the total cost in a year (365 days)?

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 =

D DIVISION

D.1 SOLVING REAL-WORLD PROBLEMS

Ex 13: A baker packs 42 cookies into boxes. Each box holds 3 cookies.How many full boxes does the baker have?



How many cookies will be left over?



Ex 14: 6 pirates share equally a treasure of 200 golden coins. How many coins does each pirate receive? How many coins remain?

> Coins per pirate = _____ coins Leftover coins = _____ coins

Ex 15: A teacher distributes 250 candies equally among 12 children. How many candies does each child receive? How many candies remain?

Candies per child = _____ candies Leftover candies = _____ candies

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?



E ORDER OF OPERATIONS



Ex 21:

$$(2+8) \div 5 \times 2 =$$

F SOLVING PROBLEMS

F.1 BUILDING THE EXPRESSION

MCQ 22: Hugo is 5 years old. Louis is twice as old as Hugo, plus 3 years. How old is Louis?

Choose the correct answer

 $\Box 2 \times 5 - 3$

- $\square 2 \times (5+3)$
- $\Box (2 \times 5) + 3$

MCQ 23: A zoo has 15 animals in the morning. 5 new animals are brought in. In the evening, the zookeeper wants to divide the animals into 5 equal groups. How many animals are in each group?

Choose the correct answer

 $\Box \ 15 + 5 \div 5$

 $\Box (15+5) \div 5$

 \Box (15 - 5) ÷ 5

MCQ 24: Emma bakes 8 muffins and wants to divide them equally among her 4 friends, including herself. Then she adds 2 more muffins to her share. How many muffins does Emma have? Choose the correct answer

 $\square \frac{8}{4} + 2$ $\square \frac{8}{4} - 2$ $\square 4 \times 2 + 2$ $\square 8 + 2 - 4$

MCQ 25: If you have 3 apples and buy 5 more, then share equally with a friend. How many apples do you have left? Choose the correct answer

□ $(3+5) \div 2$ □ 3+5-2□ $3 \times 5 \div 2$ □ $3+5 \div 2$

MCQ 26: Mei has \$15. She spends \$5 on a book and then \$3 on a snack. She receives \$10 from her grandparents. How much money does Sophia have now? Choose the correct answer

- 15 5 3 + 10
- 15 5 + 3 + 10
- (15-5)-3
- 15 5 (3 + 10)

MCQ 27: Hugo has 12 pencils. He gives 3 pencils to each of his 2 friends and then buys 5 more pencils. How many pencils does Hugo have left?

Choose the correct answer

$12 + 3 \times 2 - 5$
$12 \div 3 + 2 + 5$
$12 - 3 \times 2 + 5$
$12 - 2 + 5 \times 3$

MCQ 28: Lucy has 4 boxes of pencils. Each box contains 6 pencils. She gives 2 boxes to her friend and then buys 3 more pencils. How many pencils does Lucy have now?

Choose the correct answer

- $(4 \times 6) (2 \times 6) + 3$
- $4 \times (6-2) + 3$
- $(4 \times 6) + (2 \times 6) 3$
- $4 \times (6+2) 3$

F.2 SOLVING REAL-WORLD PROBLEMS

Ex 29: Hugo is 5 years old. Louis is twice as old as Hugo, plus 3 years. How old is Louis?

old.

Ex 30: A zoo has 15 animals in the morning. 5 new animals are brought in. In the evening, the zookeeper wants to divide the animals into 5 equal groups. How many animals are in each group?



Ex 31: Hugo has 12 pencils. He gives 3 pencils to each of his 2 friends and then buys 5 more pencils. How many pencils does Hugo have left?

pencils left

Ex 32: If you have 3 apples and buy 5 more, then share equally with a friend. How many apples do you have left?



