

CHAPTER 2: MULTIPLICATION & DIVISION



Exercise 1

1. Multiply the 4-digit number by the 1-digit number.

<p>(a) 3261×3</p> $\begin{array}{r} 3261 \\ \times \quad 3 \\ \hline \\ \hline \end{array}$	<p>(b) 2187×6</p> $\begin{array}{r} 2187 \\ \times \quad 6 \\ \hline \\ \hline \end{array}$
<p>(c) 4192×7</p> $\begin{array}{r} 4192 \\ \times \quad 7 \\ \hline \\ \hline \end{array}$	<p>(d) 8013×9</p> $\begin{array}{r} 8013 \\ \times \quad 9 \\ \hline \\ \hline \end{array}$

2. Divide the 4-digit number by the 1-digit number.

<p>(a) $5307 \div 4$</p> $\begin{array}{r} 4 \overline{) 5307} \end{array}$	<p>(b) $3290 \div 5$</p> $\begin{array}{r} 5 \overline{) 3290} \end{array}$
<p>(c) $7659 \div 2$</p> $\begin{array}{r} 2 \overline{) 7659} \end{array}$	<p>(d) $2099 \div 8$</p> $\begin{array}{r} 8 \overline{) 2099} \end{array}$

3. Multiply the 2-digit number by the 2-digit number.

<p>(a) 39×16</p> $\begin{array}{r} 39 \\ \times 16 \\ \hline \hline \end{array}$	<p>(b) 73×71</p> $\begin{array}{r} 73 \\ \times 71 \\ \hline \hline \end{array}$
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<p>(c) 63×46</p> $\begin{array}{r} 63 \\ \times 46 \\ \hline \\ \hline \end{array}$	<p>(d) 58×38</p> $\begin{array}{r} 58 \\ \times 38 \\ \hline \\ \hline \end{array}$
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4. Multiply the 3-digit number by the 2-digit number.

<p>(a) 459×83</p> $\begin{array}{r} 459 \\ \times 83 \\ \hline \\ \hline \end{array}$	<p>(b) 748×69</p> $\begin{array}{r} 748 \\ \times 69 \\ \hline \\ \hline \end{array}$
<p>(c) 137×56</p> $\begin{array}{r} 137 \\ \times 56 \\ \hline \\ \hline \end{array}$	<p>(d) 406×54</p> $\begin{array}{r} 406 \\ \times 54 \\ \hline \\ \hline \end{array}$

5. Estimate the value.

(a) $1380 \times 3 \approx \underline{\hspace{2cm}} \times 3 = \underline{\hspace{2cm}}$

(b) $2176 \times 4 \approx \underline{\hspace{2cm}} \times 4 = \underline{\hspace{2cm}}$

(c) $4493 \times 7 \approx \underline{\hspace{2cm}} \times 7 = \underline{\hspace{2cm}}$

(d) $8851 \times 6 \approx \underline{\hspace{2cm}} \times 6 = \underline{\hspace{2cm}}$

(e) $48 \div 5 \approx \underline{\hspace{2cm}} \div 5 = \underline{\hspace{2cm}}$

(f) $611 \div 3 \approx \underline{\hspace{2cm}} \div 3 = \underline{\hspace{2cm}}$

(g) $2089 \div 7 \approx \underline{\hspace{2cm}} \div 7 = \underline{\hspace{2cm}}$

(h) $3155 \div 8 \approx \underline{\hspace{2cm}} \div 8 = \underline{\hspace{2cm}}$

6. Find the quotient and remainder.

(a) $2944 \div 3$

Quotient = $\underline{\hspace{2cm}}$; Remainder = $\underline{\hspace{2cm}}$

(b) $5501 \div 8$

Quotient = $\underline{\hspace{2cm}}$; Remainder = $\underline{\hspace{2cm}}$

7. Fill in the missing numbers.

(a) $28 \times 40 = 28 \times \underline{\hspace{2cm}} \times 10 = \underline{\hspace{2cm}} \times 10 = \underline{\hspace{2cm}}$

(b) $61 \times 50 = 61 \times \underline{\hspace{2cm}} \times 10 = \underline{\hspace{2cm}} \times 10 = \underline{\hspace{2cm}}$

(c) $405 \times 30 = 405 \times \underline{\hspace{2cm}} \times 10 = \underline{\hspace{2cm}} \times 10 = \underline{\hspace{2cm}}$

(d) $397 \times 20 = 397 \times \underline{\hspace{2cm}} \times 10 = \underline{\hspace{2cm}} \times 10 = \underline{\hspace{2cm}}$

8. Estimate the value of the product.
- (a) $17 \times 13 \approx \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
- (b) $54 \times 45 \approx \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
- (c) $483 \times 62 \approx \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
- (d) $295 \times 39 \approx \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
9. Work out the missing number.
- (a) $48 \times 29 = 28 \times 29 + \underline{\hspace{2cm}} \times 29$
- (b) $290 \times 52 = 250 \times 52 + \underline{\hspace{2cm}} \times 52$
- (c) $58 \times 34 = 58 \times 20 + 58 \times \underline{\hspace{2cm}}$
- (d) $616 \times 81 = 616 \times 50 + 616 \times \underline{\hspace{2cm}}$
10. Ms Suhaily bought 32 packets of sweets. Each packet had 19 sweets. How many sweets did she have altogether? Round the answer to the nearest ten.

11. A factory produces 376 toys each day. How many toys does the factory produce in 2 weeks? Round the answer to the nearest hundred.

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12. The product of two numbers is 3618. One of the numbers is 9. Find the other number.

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13. A car can travel 16 km with 1 litre of petrol. How many kilometres can the car travel on 23 litres of petrol?

14. When a number is divided by 8, the quotient is 792 and the remainder is 5. Find the number.

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15. Mdm Koh earns \$850 a month. How much does she earn in a year?

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16. A printer can print 1000 pages in 8 minutes. How many pages can it print in 1 minute?

Exercise 2

1. A rectangular field is 80 m long and 37 m wide. Find the area of the field.

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2. A marble weighs 26 g. What is the mass of a pack of 60 similar marbles? Give your answer in kilograms and grams.

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3. A water container had 1800 litres of water. How many 5 litres water bottles can it fill?

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4. Faizal packed some marbles into bags of 25. In the end, he had 19 bags of marbles and 15 marbles were left unpacked. How many marbles did Faizal have at first?
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5. There are 37 pupils and 4 teachers on each bus. How many passengers are there in 11 buses?
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6. A school bought 15 computers at \$629 each. How much did the school spend? Round the answer to the nearest hundred.

7. Mark is 3 times as heavy as Indy. The difference in their masses is 58 kg. Find Mark's mass.

8. A bottle contains red beads and yellow beads. The number of red beads is twice the number of yellow beads. There are 806 yellow beads. How many red beads are there?

9. In a school, the number of boys is twice the number of girls. There is a total of 1740 pupils in the school. How many girls are there in the school?

10. A factory produces 276 toys each day. How many toys does the factory make in 4 weeks? Round the answer to the nearest ten.

11. Danny has 1296 cards. Eugene has twice as many cards as Danny. How many cards do the two boys have altogether?

12. Mr Ali made 2384 muffins. He wanted to pack all of them in boxes. Each box can pack at most 9 muffins. How many boxes did he need?

13. A train set costs \$309. Find the cost of 26 train sets. Round the answer to the nearest hundred.

14. Javen has \$3427 in his bank account. His older sister has 4 times as much money as him in her bank account. Find the total amount of money that both of them have in their bank accounts.

15. A part time university tutor earns \$2344 for 8 days of work. How much does she earn each day?

16. An engineer earns \$3522 a month. He saves \$750 in his bank account and then spends the remaining money equally over 4 weeks. How much money does he spend in 1 week?

Level 2

Exercise 1

1. Fill in the missing numbers.

<p>(a)</p> $ \begin{array}{r} 69 \\ \times \square 5 \\ \hline \square 45 \\ 2760 \\ \hline 3105 \\ \hline \end{array} $	<p>(b)</p> $ \begin{array}{r} 407 \\ \times 3 \square \\ \hline 3663 \\ 1 \square 210 \\ \hline 1 \square 873 \\ \hline \end{array} $
<p>(c)</p> $ \begin{array}{r} \square 38 \\ \times 72 \\ \hline 1876 \\ \square 5660 \\ \hline \square 7536 \\ \hline \end{array} $	<p>(d)</p> $ \begin{array}{r} 5 \square 4 \\ \times 52 \\ \hline 1108 \\ 27 \square 00 \\ \hline 28 \square 08 \\ \hline \end{array} $

2.

$$\text{😊} + \text{😊} + \text{😊} = 2007$$

$$\text{😊} \times 13 = \text{♥}$$

Find the value of ♥. Round the answer to the nearest hundred.

3.

$$\text{☀} \div 16 = 567$$

$$\text{☀} \div 9 = \text{◇}$$

Find the value of ◇. Round the answer to the nearest hundred.

4.

$$\triangle \times \triangle = 16$$

$$9264 \div \triangle = \text{✚}$$

Find the value of ✚.

5. The sum of two numbers is 2307. The difference between the two numbers is 509. Find the two numbers.

6. Michael and Benjamin had \$1300 altogether. Benjamin had 3 times as much as Michael.

(a) How much money did Michael have?

(b) How much more money did Benjamin have than Michael?

7. Amy has \$89. Mabel has 4 times as much money as Amy. Sharon has 5 times as much money as Amy. How much money do the three girls have altogether?

8. There are 258 oranges. There are twice as many oranges as pears. There are 3 times as many pears as apples. How many fruits are there altogether?

9. Jia Po has twice as much money as Jason. Mandy has twice as much money as Jia Po. Jia Po has \$820. How much more money does Mandy have than Jason?

10. During a carnival at the museum, there were 4 times as many adults as boys. There were also twice as many girls as boys. There were 378 more adults than girls. How many children were there?

11. At a furniture shop, two glass dining tables are sold at \$1316. How much do ten glass dining tables cost?

12. A 3-day stay at a hotel cost Mr Chan a total of \$732. If the daily room charges remains the same, how much money would he have to pay if he had stayed for thirteen days?

13. A shopkeeper has 25 boxes of pencils. There are 12 pencils in each box. He tied all the pencils into bundles of 5. How many bundles of pencils will he get?

14. At a supermarket, a worker unpacked 19 boxes of oranges. There were 48 oranges in each box. If the oranges were sold at 8 for \$3, how much money did the worker collect altogether?

15. Mrs Fong bought some apples. The apples were sold at 6 for \$4. She spent \$16 on the apples. How many apples did she buy?

16. Mdm Shakila bought 35 pears. The pears were sold at 5 for \$4. How much money did she spend on the pears?

Exercise 2

Choose the correct answer and write its number in the brackets provided.

1. Which of the following products is estimated to a value of 800?
(1) 23×34 (2) 4×281
(3) 11×74 (4) 418×2 ()
2. Which of the following products has a value greater than 2500?
(1) 45×54 (2) 297×8
(3) 141×18 (4) 96×26 ()

3. Which of the following products has the digit 3 in the thousands place?
- (1) 48×75 (2) 3×997
 (3) 55×74 (4) 596×8 ()
4. Which one of the following gives a quotient of 427?
- (1) $1713 \div 4$ (2) $1289 \div 3$
 (3) $3413 \div 8$ (4) $2990 \div 7$ ()
5. Which one of the following gives a remainder of 1?
- (1) $7983 \div 9$ (2) $919 \div 4$
 (3) $4226 \div 7$ (4) $5551 \div 6$ ()
6. When a number is divided by 7, the quotient is 163 and the remainder is 4. What is the remainder when the same number is divided by 5?
- (1) 1 (2) 0
 (3) 3 (4) 4 ()
7. A certain number when divided by 9 gives a remainder of 1. Which of the following can be the number?
- (1) 3716 (2) 2405
 (3) 694 (4) 92 ()
8. A certain number when divided by 4 gives a remainder of 3. The same number when divided by 3 gives a remainder of 2. Which of the following can be the number?
- (1) 55 (2) 71
 (3) 89 (4) 103 ()
9. $\bigcirc \times 8 = 32$
 $\bigcirc \times \square = 2048$
 What is the value of $\square + \square$?
- (1) 64 (2) 132
 (3) 512 (4) 1024 ()

10. Fred has 3 times as much money as Sean. Edwin has twice as much money as Fred. So, Edwin has _____ times as much money as Sean.
(1) 5 (2) 2
(3) 3 (4) 6 ()
11. Jimmy has twice as many cards as Arvin. Jimmy has 4 times as many cards as Zack. So, Arvin has _____ times as many cards as Zack.
(1) 8 (2) 2
(3) 6 (4) 4 ()
12. Billy is twice as heavy as Nash. Tom is 3 times as heavy as the total mass of Billy and Nash. So, Tom is _____ times as heavy as Nash.
(1) 6 (2) 2
(3) 3 (4) 9 ()
13. Apples are sold at 5 for \$3. Find the cost of 100 apples.
(1) \$500 (2) \$300
(3) \$60 (4) \$20 ()
14. Oranges are sold at 3 for \$4. How many oranges can you buy with \$60?
(1) 15 (2) 20
(3) 45 (4) 80 ()
15. The sum of two numbers is 540. The difference between the two numbers is 188. Find the smaller number.
(1) 176 (2) 352
(3) 364 (4) 728 ()
16. The sum of two numbers is 744. The larger number is 3 times the smaller number. Find the smaller number.
(1) 747 (2) 558
(3) 248 (4) 186 ()

Level 3**Exercise 1**

1. Kellyn has twice as much money as Hilary. Patricia has \$350 more than Kellyn. The three girls have \$1125 altogether. How much money does Kellyn have?

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2. There are 2113 people at a concert. There are 5 times as many girls as boys. There are 377 more adults than boys. Find the number of girls at the concert.

3. Mr Abdullah is twice as tall as his daughter. His daughter is 19 cm shorter than his son. The total height of Mr Abdullah and his two children is 363 cm. How tall is his son? Give your answer in metres and centimetres.

4. A boy has a total of 760 red, blue and green marbles. He has 3 times as many green marbles as blue marbles. He has 45 fewer red marbles than blue marbles. How many green marbles does he have?

5. The total mass of boxes A, B and C is 1085 g. Box A is 250 g lighter than box B. Box A is 190 g lighter than box C. How heavy is box C?

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6. Foo Ming is 3 cm taller than Helmi. Kenny is 8 cm shorter than Helmi. Their total height is 412 cm. Find Helmi's height.

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7. Jane obtained 6 more marks for her Maths exam than for her Science exam. She also obtained 11 more marks for her English exam than for her Maths exam. Her total marks for the 3 subjects was 248. How many marks did she obtain for her English exam?

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8. Mr Alan has \$6500. Mrs Alan has \$1520. How much money must Mr Alan give to Mrs Alan so that both of them have the same amount of money?

9. Danny has 1296 cards. Ben has twice as many cards as Danny. How many cards must Ben give to Danny so that both of them have the same number of cards?

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10. Raymond has \$408. He has 4 times as much money as Elson. How much money must Raymond give to Elson so that they have the same amount of money?

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11. Silva and Raju have a total of 340 marbles. Silva has 90 marbles. How many marbles must Raju give to Silva so that both of them have the same number of marbles?

12. Jermaine has 28 pencils in basket A. She also has 5 pencils in basket B. She wants to transfer some pencils from basket A to basket B so that in the end, there are twice as many pencils in basket A as in basket B. How many pencils should she transfer?

13. Jeremy has 85 cards. Kevin has 140 cards. How many cards must Kevin give to Jeremy so that Jeremy has twice as many cards as Kevin?

14. Mr Ang has two bank accounts. He has \$2000 in account A and \$3710 in account B. How much money must he transfer from account A to account B so that account B has 4 times as much money as account A?

15. Mr Rahman has two similar water tanks. The first tank has 630 litres of water. The second tank has only 30 litres of water. He wants the first tank to have three times as much water as the second tank. How much water must he pour from the first tank into the second tank?

16. Alfred is carrying a bag with a mass of 1016 g. His brother is carrying a bag that is twice as heavy as his bag. Alfred transferred some items into his brother's bag so that in the end his brother's bag has a mass that is three times as heavy as his bag. Find the mass of the items that Alfred transferred.

Exercise 2

1. Veronica had \$100. Rachael had \$30. Veronica gave some money to Rachael. In the end, she had \$40 more than Rachael. How much money did Rachael have in the end?

2. Sebastian has \$100. His older sister, Fiona, has \$250. Fiona gives some money to Sebastian. In the end, Fiona has only \$30 more than him. How much money does Fiona have in the end?

3. Mark has 25 marbles. Sharil has 63 marbles. Mark loses some marbles to Sharil during a game. In the end, Sharil has 70 more marbles than Mark. How many marbles does Mark have in the end?

4. Mrs Tan has \$4200. Mr Tan has \$600. Mrs Tan gives some of her money to Mr Tan so that she has \$100 more than Mr Tan in the end.
- How much money does she have in the end?
 - How much money does she give to Mr Tan?

5. Mary has two piggy banks, bank A and bank B. In bank A, she has \$15. In bank B, she has \$11. She wants to transfer some money from bank B to bank A so that in the end, bank A has \$20 more than bank B. How much money should she transfer?

6. Mr Hong bought 3 toy cars and 5 toy trucks. He spent a total of \$233. A toy truck cost \$5 more than a toy car. Find the cost of a toy car.

7. Mdm Haslina paid \$173 for 4 chairs and 3 stools. A stool cost \$10 less than a chair. Find the cost of a chair.

8. A certain number when divided by 3 gives a remainder of 1. When the same number is divided by 9, the remainder is 4. What is the smallest possible number?

9. A certain 3-digit number when divided by 6 gives a remainder of 3. When the same number is divided by 7, the remainder is 4. What is the smallest possible number?

10. A certain number when divided by 8 gives a quotient of 4. What is the largest possible number?

11. A certain number when divided by 7 gives a quotient of 36. What is the largest possible number?

12. A certain number when divided by 8 gives a quotient of 999. What is the largest possible number?

13. A certain number leaves a remainder of 1 when divided by 2, 3 and 4. What is the smallest possible number?

14. A class teacher tries to group the pupils for a game. If she forms groups of 3, 4 or 9, one pupil is left out. How many pupils are there in the class?

15. The product of two consecutive whole numbers is 3782. Find these two numbers.

16. Axel is reading a book. The product of the facing page numbers is 7482. What page is he reading?

17. The product of three consecutive whole numbers is 7980. Find the three numbers.