Grade 4

Reveal MATH®

AVAILABLE IN SPANISH

Mc Graw Hill

Student Practice Book
Sampler

Grade 4

Reveal MATH®

Student Practice Book **Sampler**

Every lesson has two additional practice pages to further build proficiency and confidence with the lesson concepts. Students can complete in the Student Practice Book or digitally with embedded learning aids and autoscoring.

This sampler includes the Student Practice Book pages from the following units:

Unit 2: Generalize Place-Value Structure
Unit 3: Addition and Subtraction Strategies and Algorithms

Mc Graw Hill

Lesson **2-1**

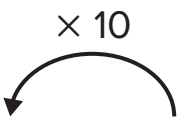
Additional Practice

Name _____

Review

You can use a place-value chart to identify the relationship between two numbers. The value of a digit in one place is 10 times the value of the same digit in the place to its right.

Identify the relationship between the digit 6 in the numbers 68 and 680.



hundred thousands	ten thousands	thousands	hundreds	tens	ones
				6	8
			6	8	0

680 is ten times the value of 68.

1. How do the values of the 8s compare in this number?

Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones
8	8	5	2	1	7

2. Margie finds the sum 640,357. Cindy finds the sum 4,793,812. How can you compare the digit 3 in these numbers?

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

3. Write the value of each digit in the number 94,053.

4. How can you rearrange two digits in the number 2,957,648 so that the value of the digit 4 is 10 times greater?

5. Write two numbers so that the value of the digit 9 in the second number is 10 times the value of the digit 9 in the first number.

Math @ Home Activity

Write the numbers 0–9 on index cards, one number per card. Shuffle the cards and have your child choose 7 cards and use them to create a 7-digit number, like 3,451,208. Identify a digit within the number and ask your child to move the digit so that it has a value that is 10 times greater. Repeat the activity by reshuffling the cards and having your child create a different number.

Lesson **2-2**

Additional Practice

Name _____

Review

You can use a place-value chart to make sense of a multi-digit number.

Millions Period			Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
		1	9	7	0	8	4	3

Use the digits and names of place-value positions to read and write the number in standard, word and expanded form.

Standard Form 1,970,843

Word Form One million, nine hundred seventy thousand, eight hundred forty-three

Expanded Form 1,000,000 + 900,000 + 70,000 + 800 + 40 + 3

Complete the table.

Standard Form	Expanded Form	Word Form
382,219		
	6,000 + 3,000 + 70 + 4	
		One million, six-hundred twenty-one thousand, seven hundred fifteen

5. A song on the Internet has been streamed 1,453,125 times. Write this number in expanded form.

6. A movie on the Internet has been streamed six-hundred thirty-nine thousand, four hundred sixty-two times. What is this number in standard form?

7. A photo on the Internet has been viewed 830,249 times. How can this number be written in word form?

8. Ingrid downloads 12,705 photos from her camera's memory card onto her computer. How can you write this number in word form? How can you write it in expanded form?

9. How is the expanded form of 1,293,500 similar to the expanded form of 493,200?

Math @ Home Activity

Have your child create a place-value chart to the millions place with craft supplies, such as construction paper and markers. Write a number to the millions place on a sheet of paper and ask your child to write the number in his or her chart with a pencil. Ask your child to then write the number in word form and expanded form. Then repeat the activity.

Lesson **2-3**

Additional Practice

Name _____

Review

You can compare two multi-digit numbers using place value.

Edwardo scores 213,568 points and Les scores 213,591 points in a game. Who scores the greater number of points?

Compare the digits in each place value, starting with the greatest place value, until the digits are different.

hundred thousands	ten thousands	thousands	hundreds	tens	ones
2	1	3	5	6	8
2	1	3	5	9	1

The digits in each place value are the same until the tens place.

9 is greater than 6.

213,591 > 213,568

So, Les scores the greater number of points.

Write > or < to compare the numbers.

1. 6,087 ◯ 6,497

2. 7,689 ◯ 7,684

3. 2,837 ◯ 22,381

4. 88,865 ◯ 88,965

5. 471,198 ◯ 471,197

6. 633,731 ◯ 633,749

7. 525,084 ◯ 525,061

8. 707,027 ◯ 707,109

Circle the number that is greater than the number given.

9. 4,374

4,373 4,378 437

10. 18,607

18,609 18,606 18,507

11. 645,088

645,084 645,001 645,089

---

12. Lorenzo wins 12,973 tickets and Trena wins 12,970 tickets. Who wins the greater number of tickets?

13. Brittany circles the number 142,357. Carmen circles the number 142,458. Which number is less than the other?

14. Alexandra's hometown has a population of 964,208 people. The population of Connor's hometown is 964,278 people. Connor thinks that his hometown has the greater population. Do you agree or disagree with Connor? Explain.

Math @ Home Activity

Create cards with the symbols > and < on them. Write two numbers that have 4 to 6 digits in them for your child to compare. Make sure there is a space between the numbers. Have your child place the < or > card between the numbers to compare them. Ask your child to explain why he or she picked the given symbol.

Lesson **2-4**

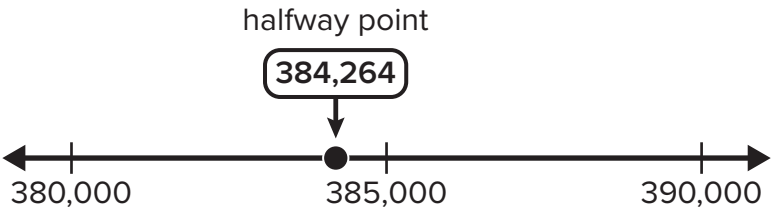
Additional Practice

Name _____

Review

You can round large numbers to any place.

Use a number line to round 384,264 to the nearest ten thousand.



384,264 is between 380,000 and 390,000.

385,000 is halfway between 380,000 and 390,000.

384,264 is closer to 380,000.

384,264 rounded to the nearest ten thousand is 380,000.

Round the following numbers to the nearest hundred thousand, ten thousand, and thousand.

		hundred thousands	ten thousands	thousands
1.	125,250			
2.	485,649			
3.	518,341			
4.	826,341			

5. A company is mailing out 16,743 letters. Envelopes are sold in boxes of one thousand. How many envelopes will the company purchase in order to have enough for all of the letters? Explain.

6. A food bank collects 324,887 items in one year. The food bank expects to collect about the same number of items during the next year. About how many items can the food bank plan to collect in the 2 years? Explain how you chose your estimate.

7. A school district gives each student an agenda book at the beginning of the school year. There are 163,641 students currently enrolled in the district. Estimate the number of agenda books the district should buy in order to account for any new students that arrive throughout the year. Explain your estimate.

Math @ Home Activity

Identify large numbers in magazines or online articles. Ask your child to round each number to the nearest hundred thousand, ten thousand, and thousand. Then ask him or her to identify which estimate would be the most acceptable in each situation.

Lesson **3-1**

Additional Practice

Name _____

Review

You can use estimates to decide whether an answer is reasonable. You can estimate a sum or difference by rounding numbers, using compatible numbers, or thinking about a range.

A park ranger records the sightings of different animals at the park. He sees 347 reptiles and 1,191 mammals within one week. About how many more mammals than reptiles did he see?

Round to estimate.	1,190 − 350 = 840
Use compatible numbers to estimate.	1,200 − 350 = 850
Think about a range.	Between 700 and 900.

1. Estimate. Then use a calculator to find the actual sum or difference.

	Estimate	Actual Answer
749 + 2,810 = ?		
4,968 − 354 = ?		
3,583 + 5,685 = ?		
14,632 − 10,766 = ?		

2. A shipping company ships 934 small packages and 4,634 large packages. About how many packages does the company ship altogether?

3. A grocery store sells 1,163 bananas and 2,891 apples in a week. About how many more apples than bananas does the grocery store sell?

4. A banker estimates the difference of $3,417 − $1,092 to be $2,330. Do you agree or disagree with the estimate? Explain.

5. Estimate the range that the sum of 2,195 and 985 will be in. Show your work.

6. Arnold estimates 8,438 − 5,534 to be 2,910. Luetta estimates the difference to be 2,900. Can both estimates be correct? Explain.

Math @ Home Activity

Help your child find a table of values in a magazine or book. The numbers in the table should be three to five digits long. Create word problems for your child to solve that involve using the numbers in the table to estimate sums and differences. Allow him or her to use a calculator to determine if the estimates are reasonable.

Lesson **3-2**

Additional Practice

Name _____

Review

You can add multi-digit in different ways.

Add 1,526 + 1,294.

One way to add is using partial sums.

Add the ones	6 + 4	10
Add the tens	20 + 90	110
Add the hundreds	500 + 200	700
Add the thousands	1,000 + 1,000	2,000
Add the partial sums.		2,820

1,526 + 1,294 = 2,820

Another way is to make adjustments.

1,526 + 1,294

↓ +4 ↓ −4

1,530 + 1,290 = 2,820

Solve and show your work.

1. 547 + 3,213 = _____

2. 11,372 + 6,284 = _____

3. 2,865 + 1,925 = _____

4. 375 + 6,242 = _____

5. 124,326 + 34,574 = _____

6. An arcade had 1,933 visitors in March and 1,506 visitors in April. What is the total number of people that visited the arcade in March and April?

7. A school held a fundraiser and raised $11,214 last year. This year they raised $12,587. What is the total amount raised over these two years?

8. The local zoo has two elephants, one male and one female. The male elephant weights 15,117 pounds. The female elephant weighs 13,945 pounds. What is the combined weight of the elephants?

Math @ Home Activity

Give your child 4 crayons, markers, or pencils that are different colors. Ask him or her to find the sum of 31,426 + 18,445 by using partial products. He or she should color code the partial products by place value so it is easy to see the values. Repeat the activity with different addition problems as long as time permits.

Lesson **3-3**

Additional Practice

Name _____

Review

You can use an algorithm, or a set of steps, to add numbers.

Find 3,451 + 1,317.

$$\begin{array}{r} 3{,}451 \\ +\ 1{,}317 \\ \hline 4{,}768 \end{array}$$

Add the ones digits first. $1 + 7 = 8$

Then add the tens digits. $5 + 1 = 6$

Add the hundreds next. $4 + 3 = 7$

Add the thousands last. $3 + 1 = 4$

Solve. Show your work.

1. $\begin{array}{r} 2{,}365 \\ +\ 423 \\ \hline \end{array}$

2. $\begin{array}{r} 5{,}617 \\ +\ 372 \\ \hline \end{array}$

3. $\begin{array}{r} 7{,}408 \\ +\ 1{,}211 \\ \hline \end{array}$

4. $\begin{array}{r} 8{,}371 \\ +\ 1{,}522 \\ \hline \end{array}$

5. $\begin{array}{r} 21{,}396 \\ +\ 5{,}401 \\ \hline \end{array}$

6. $\begin{array}{r} 33{,}544 \\ +\ 2{,}135 \\ \hline \end{array}$

7. $\begin{array}{r} 26{,}496 \\ +\ 11{,}502 \\ \hline \end{array}$

8. $\begin{array}{r} 46{,}837 \\ +\ 22{,}141 \\ \hline \end{array}$

9. A library donates 1,124 new books and 571 movies to a school. How many items does the library donate?

10. Olivia has 2,130 songs on her computer and 742 songs on her phone. How many songs does she have in all?

11. A grocery store makes $12,571 in January. In February, the store makes $14,305. How much money does the store make in January and February?

12. Natalya walks 13,421 steps on Monday and 15,364 steps on Tuesday. Otelia walks 13,537 steps on Monday and 15,412 steps on Tuesday. Who walks the greater number of steps? Explain.

Math @ Home Activity

Ask your child to state the order in which the digits in a multi-digit addition problem are added. Use everyday situations to create addition problems that require no regrouping for your child to practice using the algorithm. For example, if you keep track of the number of calories consumed in a day, have your child find the calorie count for 2 meals.

Lesson **3-4**

Additional Practice

Name _____

Review

You can add large numbers with an algorithm. You write the equation vertically and add the digits in the same place value. When the sum of the digits in one place is a 2-digit number, you need to regroup.

A small company produces 12,458 pencils and 6,235 pens in one day. How many pencils and pens does the company produce in one day?

$$\begin{array}{r} {\scriptstyle 1} \\ 12{,}458 \\ +\ 6{,}235 \\ \hline 18{,}693 \end{array}$$

Add the ones. The sum of 8 ones and 5 ones is 13 ones. You record the 3 of the 13 ones and regroup the ten.

Add the tens. No regrouping is required.

Add the hundreds. No regrouping is required.

Add the thousands. No regrouping is required.

Add the ten thousands.

What is the sum? Show your work.

1.
$$\begin{array}{r} 1{,}642 \\ +\ 387 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 2{,}094 \\ +\ 1{,}037 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 5{,}947 \\ +4{,}506 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 18{,}761 \\ +2{,}390 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 13{,}483 \\ +\ 14{,}918 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 19{,}798 \\ +\ 10{,}403 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 26{,}917 \\ +\ 17{,}015 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 20{,}685 \\ +\ 18{,}832 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 29{,}731 \\ +\ 25{,}933 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 28{,}675 \\ +\ 24{,}739 \\ \hline \end{array}$$

---

11. Alene scores 2,467 points during round 1 of a board game and 3,946 points during round 2. How many points does she score in all?

12. Delma's work is shown below. How do you respond to her calculations? Explain.

$$\begin{array}{r} {\scriptstyle 1\ 1} \\ 13{,}687 \\ +\ 3{,}595 \\ \hline 17{,}272 \end{array}$$

Have your child roll a number cube 10 times, recording the numbers in the following format.

$$\begin{array}{r} xx{,}xxx \\ +\ xx{,}xxx \\ \hline \end{array}$$

Have him or her add the numbers using the algorithm for addition. Then check your child's work. Have your child repeat this activity a few times.

Lesson **3-5**

Additional Practice

Name _____

Review

You can subtract multi-digit numbers by decomposing the subtrahend and then subtract by place value.

7,855 − 3,420 = ?

Decompose the number: 3,420 = 3,000 + 400 + 20

Subtract: 7,855 − 3,000 = 4,855

4,855 − 400 = 4,455

4,455 − 20 = 4,435

7,855 − 3,420 = 4,435

Solve and show your work.

1. 2,985 − 1,270 = _____

2. 7,968 − 4,126 = _____

3. 5,438 − 3,215 = _____

4. 67,855 − 33,420 = _____

5. A school bus driver drives 2,176 miles in December and 3,241 miles in January. How many more miles does the bus driver drive in January compared to December?

6. Caldon School District has 12,064 students enrolled. There are 10,933 students enrolled in Dempsey School District. How many more students are enrolled in Caldon School District than in Dempsey School District?

7. A school sold 5,618 tickets to the first football game of the season. There were 4,724 tickets sold to the second football game. How many more people attended the first football game?

8. There were two students running for student body president. The first student received 3,217 votes. The second student received 2,987 votes. How many more votes did the first candidate receive?

Math @ Home Activity

Using the internet or a newspaper, find the prices of different cars, trucks, or SUVs. Have your child find the difference between the prices of 2 vehicles using decomposing or adjustments. Have him or her explain how they find the difference.

Lesson **3-6**

Additional Practice

Name _____

Review

You can use an algorithm to subtract multi-digit numbers. First, write the equation vertically and then subtract like units in each place-value position, starting with the ones place.

A theme park sells 4,572 adult tickets and 2,350 child tickets in one week. How many more adult tickets than child tickets sold?

$$\begin{array}{r} 4{,}572 \\ -\ 2{,}350 \\ \hline 2{,}222 \end{array}$$

Subtract the ones digits.

Subtract the tens digits.

Subtract the hundreds digits.

Subtract the thousands digits.

So, 2,222 more adult tickets were sold.

Solve using an algorithm.

1. $\begin{array}{r} 1{,}961 \\ -\ 510 \\ \hline \end{array}$

2. $\begin{array}{r} 3{,}598 \\ -\ 2{,}485 \\ \hline \end{array}$

3. $\begin{array}{r} 5{,}733 \\ -\ 3{,}213 \\ \hline \end{array}$

4. $\begin{array}{r} 8{,}649 \\ -\ 5{,}407 \\ \hline \end{array}$

5. $\begin{array}{r} 19{,}789 \\ -\ 5{,}364 \\ \hline \end{array}$

6. $\begin{array}{r} 24{,}087 \\ -\ 13{,}055 \\ \hline \end{array}$

7.
$$\begin{array}{r} 31{,}875 \\ -\ 11{,}744 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 42{,}769 \\ -\ 21{,}254 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 55{,}980 \\ -\ 34{,}560 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 61{,}936 \\ -\ 21{,}721 \\ \hline \end{array}$$

---

11. Renetta buys a laptop that costs $1,230. She has $2,350 to spend. How much money does she have left?

12. Ariana walks 5,798 feet and runs 3,634 feet. How many more feet does she walk?

13. Company A makes $12,560 a month. After donating some money to an animal shelter, they have $11,430 left. Company B makes $13,679 a month. After donating some money to a food pantry, they have $12,552 left. Which company donates more money? Explain your reasoning.

Math @ Home Activity

Provide opportunities for your child to subtract using the algorithm by creating word problems based on everyday situations. These subtraction problems should *not* require regrouping. While your child works on one problem, work on another problem and make a mistake. Ask your child to identify and fix the mistake.

Lesson **3-7**

Additional Practice

Name _____

Review

You can use an algorithm for subtracting multi-digit numbers with regrouping. First write the equation vertically and then subtract the digits in the same place value.

Find 56,734 − 28,921.

$$\begin{array}{r} {}^{1}\cancel{5}\,{}^{15}\cancel{6},{}^{4}\cancel{7}\,{}^{17}\cancel{3}4 \\ -\ 28,921 \\ \hline 27,813 \end{array}$$

Subtract the ones digits. Subtract the tens digits.

Regroup to subtract the hundreds digits.

Regroup to subtract the thousands digits.

Subtract the ten thousands digits.

Solve using an algorithm.

1. 2,461 − 397

2. 3,309 − 1,857

3. 7,910 − 4,761

4. 18,847 − 6,995

5. 20,955 − 18,293

6. 26,008 − 14,350

7.
$$\begin{array}{r} 31{,}701 \\ -\ 19{,}568 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 43{,}998 \\ -\ 25{,}479 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 61{,}597 \\ -\ 24{,}600 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 80{,}645 \\ -\ 32{,}470 \\ \hline \end{array}$$

---

11. Sonny has 2,265 trading cards. His organizer holds 1,575 cards. How many cards will *not* fit in the organizer?

12. Florence has 7,615 black and white photos and 3,978 color photos. How many more black and white photos does she have?

13. Setsuko's work is shown at the right. What did he do wrong? What is the correct answer?

$$\begin{array}{r} 54{,}392 \\ -\ 38{,}576 \\ \hline 24{,}224 \end{array}$$

Math @ Home Activity

Write a few subtraction word problems that have real-world contexts. Ask your child to determine how many times he or she thinks it will be necessary to regroup in each problem. Then have him or her show you how to solve each problem. Contexts that can be used for problems can be distances in feet or miles, points in games, or money.

Lesson **3-8**

Additional Practice

Name _____

Review

You can use a bar diagram and an equation with a variable to represent and solve a multi-step problem.

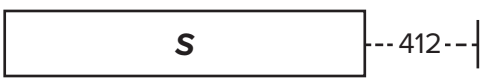
The zoo had students visiting during the first three days in May. On the first day 2,915 students visited. On the second day 412 fewer students visited. Attendance records showed 175 fewer students visited on the third day than the second day. How many total students visited over those three days?

Step 1:

First day

$s = 2{,}915 - 412$

Second day



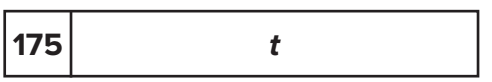
$s = 2{,}503$

Step 2:

Second day

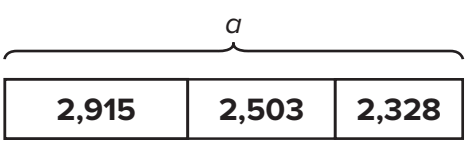
$t = 2{,}503 - 175$

Third day



$t = 2{,}328$

Step 3:



$a = 2{,}915 + 2{,}503 + 2{,}328$

$a = 7{,}746$

Use diagrams and equations to solve each problem. Show your work.

1. A company printed flyers to advertise their upcoming sale. The flyers were printed in 3 batches. The first batch had 7,355 flyers. The second bath had 1,690 fewer flyers than the first bath. The third batch had 895 fewer than the second batch. How many flyers did they print in all?

2. There are 625 students going on a field trip. The students are into four groups. How many students are in the red group?

Group Name	Number of students
Blue	144
Green	162
Yellow	155
Red	?

3. A food bank collected 3,887 food items in one month. The next month they collected 997 more food items. The following month they collected 572 fewer items than the first month. How many food items were collected over three months?

4. The water park had 15,276 visitors on opening weekend. The following weekend had 1,231 fewer visitors than opening weekend. The third weekend had 765 more visitors than the second weekend. How many visitors did the park have over the first three weekends?

Math @ Home Activity

Identify greater numbers around your home or in magazines and online articles. Ask your child to round the number to the nearest hundred thousand, ten thousand, and thousand. Then ask your child to identify which estimate is most reasonable in each situation.

Lesson **3-9**

Additional Practice

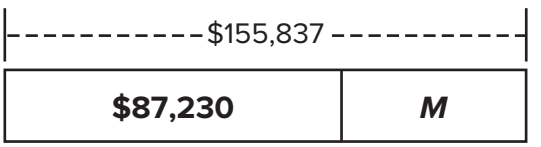
Name _____

Review

You can solve problems using several steps and multiple strategies.

Lakeside School District has $155,837 set aside to buy new playground equipment. They spent $87,230 on swing sets at all of the elementary schools in the district. They need $62,561 for slides and $30,652 for jungle gyms. How much more money do they need to purchase the slides and jungle gyms?

Step 1 Find the amount the school district has left after buying swing sets for all of the elementary schools.



$m = 155{,}837 - 87{,}230$
$m = 68{,}607$

The district has $68,607 left.

Step 2 Find the cost of the slides and jungle gyms.

$62{,}561 + 30{,}652 = 93{,}213$

The slides and jungle gyms will cost $93,213.

Step 3 Find how much more money the group needs.

$93{,}213 - 68{,}607 = 24{,}606$

The district needs $24,606 more for new slides and jungle gyms.

Solve. Show your work.

1. The Green Meadows Homeowners Association had $4,715 in their account at the end of last year. This year they want to landscape the neighborhood park. In January they collect $1,348 in dues. The new landscaping costs $5,215. Will they have enough money for this project?

2. The New City Orchestra sold 2,736 tickets in advance for opening weekend. On Friday, they sold 3,835 tickets. They sold a total of 10,922 tickets. How many tickets did they sell on Saturday?

3. Brookfield Elementary School is holding a fun run. Each student has three weeks to get pledges to raise money for charity. After the first week the students' total pledges were $7,462. On the final week they raised $5,890. After all the pledges were collected the school raised a total of $20,704. How much money did they raise during the second week?

4. Kayla and her family are taking a four-day train trip across the country. They will be traveling a total of 2,787 miles. On the first and second day they traveled 825 miles total. On the third day they traveled 1,043 miles. How many miles left do they have to travel on the fourth day?

Math @ Home Activity

Tell your child you are going to plan a trip and have a budget of $300 a person for a plane ticket. Look online to find the cost of plane tickets to your destination. Determine if you have enough budgeted for everyone's plane tickets.

Grade 4

Reveal MATH®

Student Practice Book **Sampler**

Every lesson has two additional practice pages to further build proficiency and confidence with the lesson concepts.

Students can view the Math Replay video, which is available in the Student Digital Center and recaps the lesson concept for the student, to support them as they complete the Student Practice Book.

When students complete the additional practice digitally, they have access to embedded learning aids, such as course resources, hints, and videos, for support. Autoscoring helps teachers easily monitor progress.

Mc Graw Hill

S2.1023605