

Grade 5 Practice Test: Place Value, Decimals & Operations

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61 practice questions on the 8 skills in the Weeks 2–5 assessment (5.NBT.A.1–A.4, 5.NBT.B.5, 5.NBT.B.7). Every number and context is new: none are copied from the assessment or the study guide.

Name: _____ Class: _____ Date: _____

How to use this practice test

- Each skill starts easy and gets harder. **Level 1** = quick check. **Level 2** = use the skill or solve a word problem. **Level 3** = explain, find the mistake, or think deeper.
- **No calculator**, just like the real test. Show your working and write units (m, kg, AED) where needed.
- Try every question in a skill before you check the answer key at the end. Circle the ones you got wrong and ask your teacher.

Skill	What you practise	Standard	Assessment section it prepares you for
1	Place value: 10 times and 1/10 of	5.NBT.A.1	A, C
2	Powers of 10 and exponents; multiplying and dividing by 10, 100, 1,000	5.NBT.A.2	A, B, C
3	Reading and writing decimals (standard, word, expanded form)	5.NBT.A.3	A, B
4	Comparing and ordering decimals	5.NBT.A.3	A, B, C
5	Rounding decimals	5.NBT.A.4	A, B
6	Multiplying whole numbers (standard algorithm)	5.NBT.B.5	B, C
7	Adding and subtracting decimals	5.NBT.B.7	A, B, C
8	Dirham (AED) word problems	5.NBT.B.7	C

Skill 1: Place value – 10 times and $\frac{1}{10}$ of (5.NBT.A.1)

Remember: each place is **10 times** the place to its right and **$\frac{1}{10}$** of the place to its left.

1.1 (Level 1) In 7,734, what is the value of the 7 in the thousands place? What is the value of the 7 in the hundreds place?

Thousands: _____ Hundreds: _____

1.2 (Level 1) In the number 3,330, the 3 in the tens place is _____ the value of the 3 in the hundreds place. Circle one.

A. 10 times • B. $\frac{1}{10}$ of • C. 100 times • D. the same as

1.3 (Level 1) Fill in the blanks.

(a) 600 is _____ times as much as 60.

(b) 0.8 is _____ of 8.

1.4 (Level 2) In 44.4, compare the 4 in the ones place with the 4 in the tenths place. Write the value of each, then complete the sentence: "The 4 in the ones place is _____ the value of the 4 in the tenths place."

Answer: _____

1.5 (Level 2) In 5,515, the 5 in the thousands place is how many times the value of the 5 in the tens place? Show how you know.

Answer: _____

1.6 (Level 2) Write a 4-digit number with two 8s, where one 8 is worth 10 times as much as the other 8. Write the value of each 8.

Answer: _____

1.7 (Level 3) Huda says: "In 0.66, the 6 in the hundredths place is worth more than the 6 in the tenths place, because it is further to the right." Is she correct? Explain using place value.

Answer: _____

Skill 2: Powers of 10 and exponents (5.NBT.A.2)

Remember: the exponent tells how many 10s are multiplied ($10^3 = 10 \times 10 \times 10 = 1,000$). Multiplying by a power of 10 moves the digits **left**; dividing moves them **right**, one place for each 10.

2.1 (Level 1) Which shows $10 \times 10 \times 10 \times 10 \times 10$ written with an exponent? Circle one.

A. 10^5 • B. 5^{10} • C. 50 • D. 10^4

2.2 (Level 1) Complete the table.

Power of 10	10^1	10^2	10^4	10^6
Value				

2.3 (Level 1) Solve.

(a) $36 \times 1,000 = \underline{\hspace{2cm}}$

(b) $5,900 \div 100 = \underline{\hspace{2cm}}$

2.4 (Level 2) Look for the pattern.

$2.63 \times 10 = \underline{\hspace{2cm}}$

$2.63 \times 100 = \underline{\hspace{2cm}}$

$2.63 \times 1,000 = \underline{\hspace{2cm}}$

2.5 (Level 2) Look for the pattern.

$815 \div 10 = \underline{\hspace{2cm}}$

$815 \div 100 = \underline{\hspace{2cm}}$

$815 \div 1,000 = \underline{\hspace{2cm}}$

2.6 (Level 2) Write the missing power of 10.

(a) $3.2 \times \underline{\hspace{2cm}} = 3,200$

(b) $46 \div \underline{\hspace{2cm}} = 0.46$

2.7 (Level 2) A school orders 100 boxes of paper. Each box weighs 3.75 kg. Write a multiplication using a power of 10 (with an exponent), then find the total weight.

Multiplication: $\underline{\hspace{4cm}}$ Total weight: $\underline{\hspace{2cm}}$ kg

2.8 (Level 3) Noor says $450 \div 10^2 = 4.5$. Ali says $450 \div 10^2 = 45$. Who is correct? Explain using place value.

Answer: $\underline{\hspace{4cm}}$

Skill 3: Reading and writing decimals (5.NBT.A.3)

Remember: say "**and**" for the decimal point, and name the **last place** (tenths, hundredths or thousandths). Expanded form shows each digit times its place value.

3.1 (Level 1) Write "six and fifty-two thousandths" in standard form.

Answer: $\underline{\hspace{4cm}}$

3.2 (Level 1) Which is the word form of 0.309? Circle one.

- A. three hundred nine thousandths
- B. thirty-nine hundredths
- C. three and nine thousandths
- D. three hundred nine hundredths

3.3 (Level 1) Write this number in standard form:

$$3 \times 10 + 7 \times 1 + 1 \times (1/10) + 5 \times (1/1,000)$$

Answer: _____

3.4 (Level 2) Write 8.061 in expanded form in two ways.

(a) Using fractions: _____

(b) As a sum of decimals: _____

3.5 (Level 2) Write 40.27 in word form and in expanded form.

Word form: _____

Expanded form: _____

3.6 (Level 2) Write the value of the digit 9 in each number.

(a) 9.42 → _____

(b) 0.093 → _____

(c) 15.009 → _____

3.7 (Level 3) Rashid writes "two and fourteen thousandths" as 2.14. Explain his mistake and write the correct number.

Answer: _____

Skill 4: Comparing and ordering decimals (5.NBT.A.3)

Remember: **line up** the decimal points, **add placeholder zeros** so the numbers are the same length, then compare from **left to right**. More digits does not mean bigger!

4.1 (Level 1) Write >, < or =.

(a) 0.7 ____ 0.70

(b) 3.09 ____ 3.9

(c) 12.405 ____ 12.45

4.2 (Level 1) Which number is the greatest? Circle one.

A. 0.81 • B. 0.809 • C. 0.8 • D. 0.089

4.3 (Level 2) Write these numbers in order from least to greatest.

5.6 • 5.06 • 5.606 • 5.066

_____ < _____ < _____ < _____

4.4 (Level 2) Four students ran the 100 m race. Their times (in seconds) were 13.4, 13.04, 13.44 and 13.404. The fastest runner has the smallest time. List the times from fastest to slowest.

Answer: _____

4.5 (Level 2) Write a decimal that makes this true. Explain how you know it fits.

2.3 < _____ < 2.31

4.6 (Level 3) Dana says $0.125 > 0.3$ because 0.125 has more digits. Explain her mistake. Then write the correct comparison using $>$, $<$ or $=$.

Answer: _____

Correct comparison: 0.125 ____ 0.3

4.7 (Level 3) Look at these numbers: 1.050, 1.5, 1.05, 1.500, 1.005. Find the pairs that are equal. Explain why they are equal.

Answer: _____

Skill 5: Rounding decimals (5.NBT.A.4)

Remember: underline the place you are rounding to. Look at **only one digit**, the one just to its right. 5 or more $\rightarrow$ round up. 4 or less $\rightarrow$ keep it the same. Never round twice!

5.1 (Level 1) Round 3.482 to the nearest tenth.

Answer: _____

5.2 (Level 1) Round 9.736 to the nearest hundredth.

Answer: _____

5.3 (Level 1) Round 18.926 to:

(a) the nearest whole number: _____

(b) the nearest tenth: _____

(c) the nearest hundredth: _____

5.4 (Level 2) Complete the table.

Number	Nearest tenth	Nearest hundredth
0.385		
7.162		

5.5 (Level 2) A jeweller weighs a gold ring. The scale shows 2.574 g.

(a) Round the weight to the nearest hundredth of a gram: _____ g

(b) Which digit did you look at to decide? Why?

Answer: _____

5.6 (Level 2) Circle **all** the numbers that round to 4.6 when rounded to the nearest tenth.

4.55 • 4.649 • 4.65 • 4.61 • 4.549

5.7 (Level 3) Salma rounds 2.346 to the nearest tenth. She writes: "The 6 rounds the 4 up to 5, so 2.35. Then the 5 rounds the 3 up, so 2.4." Explain her mistake and give the correct answer.

Answer: _____

5.8 (Level 3) A number has two decimal places. When it is rounded to the nearest tenth, the answer is 8.4. What is the smallest the number could be? What is the largest?

Smallest: _____ Largest: _____

Skill 6: Multiplying whole numbers (5.NBT.B.5)

Remember: multiply by the **ones** digit first, then by the **tens** (put a 0 in the ones place for the second row). Add the two partial products.

6.1 (Level 1) Multiply. Show your work.

$$34 \times 12 = \underline{\hspace{2cm}}$$

6.2 (Level 1) Multiply using the standard algorithm.

$$152 \times 24 = \underline{\hspace{2cm}}$$

6.3 (Level 2) Multiply using the standard algorithm.

$$365 \times 47 = \underline{\hspace{2cm}}$$

6.4 (Level 2) Multiply using the standard algorithm. Watch the zero!

$$509 \times 63 = \underline{\hspace{2cm}}$$

6.5 (Level 2) Fill in the partial products for 824×25 .

$824 \times 5 = \underline{\hspace{2cm}}$

$824 \times 20 = \underline{\hspace{2cm}}$

$\text{Total: } 824 \times 25 = \underline{\hspace{2cm}}$

6.6 (Level 2) A school bus makes 186 trips in a year. Each trip is 42 km. How many kilometres does the bus travel in the year? Show your work.

Answer: $\underline{\hspace{2cm}}$ km

6.7 (Level 3) Ahmed multiplies 263×34 . His work:

$263 \times 4 = 1,052$

$263 \times 3 = 789$

$1,052 + 789 = 1,841$

Explain his mistake and find the correct product.

Answer: $\underline{\hspace{4cm}}$

6.8 (Level 3) A stadium has 58 rows. Each row has 124 seats. 7,000 people want to watch a match. Are there enough seats for everyone? Show your work and explain.

Answer: $\underline{\hspace{4cm}}$

Skill 7: Adding and subtracting decimals (5.NBT.B.7)

Remember: **line up the decimal points**. Fill empty places with **placeholder zeros** (6 = 6.00). Estimate first so you can check that your answer makes sense.

7.1 (Level 1) $3.42 + 2.35 = \underline{\hspace{2cm}}$

7.2 (Level 1) $8.76 - 4.51 = \underline{\hspace{2cm}}$

7.3 (Level 2) Solve. Show your working.

$5.68 + 2.9 = \underline{\hspace{2cm}}$

7.4 (Level 2) Solve. Show your working.

$7.3 - 4.86 = \underline{\hspace{2cm}}$

7.5 (Level 2) Solve. Show your working.

$15 - 8.43 = \underline{\hspace{2cm}}$

7.6 (Level 2) What is $12.6 + 0.85$? Circle one, then explain the mistake made in **one** of the wrong answers.

A. 12.685 • B. 13.45 • C. 21.1 • D. 13.35

Answer: _____

7.7 (Level 2) Reem ran 3.75 km on Monday and 4.6 km on Tuesday.

- (a) How far did she run altogether? _____ km
 (b) How much farther did she run on Tuesday than on Monday? _____ km

7.8 (Level 3) Layan works out $9.2 - 3.45$ and gets 6.25.

- (a) Explain what Layan did wrong.
 (b) Find the correct answer.
 (c) Use an estimate to show why 6.25 cannot be right.

Answer: _____

Skill 8: Dirham (AED) word problems (5.NBT.B.7)

Remember: AED 1 = 100 fils, so fils are hundredths of a dirham. For change: **add** what you spend, then **subtract** from what you paid. Write AED in your answer.

8.1 (Level 1) Fill in the blanks.

- (a) 7 dirhams and 35 fils = AED _____
 (b) AED 0.60 = _____ fils

8.2 (Level 1) A pen costs AED 4.25 and a notebook costs AED 6.50. What is the total cost?

Answer: AED _____

8.3 (Level 2) Ali has AED 20. He buys a sandwich for AED 13.75. How much money does he have left?

Answer: AED _____

8.4 (Level 2) At the school canteen, Hind wants a juice for AED 2.75, a cookie for AED 3.50 and an apple for AED 1.25. She has AED 7. Does she have enough money? If not, how much more does she need? Show your work.

Answer: _____

8.5 (Level 2) Salem pays for a taxi ride of AED 23.40 with an AED 50 note. Then he spends AED 1.95 of his change on a bottle of water. How much money does he have left?

Answer: AED _____

8.6 (Level 2) Fatima has AED 35. She wants to buy a book for AED 18.90 and a puzzle for AED 14.35.

- (a) Estimate: will she have enough money? Explain.

(b) Find the exact total and how much money she will have left.

Answer: _____

8.7 (Level 3) The same backpack costs AED 64.50 at Shop A and AED 59.95 at Shop B. Noura buys it from the cheaper shop and pays with an AED 100 note.

(a) How much change does she get?

(b) How much money did she save by not buying from the other shop?

Answer: _____

8.8 (Level 3) Obaid buys groceries for AED 12.65. He pays with an AED 20 note. The shopkeeper gives him AED 8.45 change. Is this the correct change? Show how you checked, and say how much the shopkeeper should have given.

Answer: _____

Answer key

Check your answers only after you have tried every question in a skill. Accept equivalent answers (for example 3.75×100 or 3.75×10^2).

Skill 1: Place value

Q	Answer	Key idea
1.1	7,000 and 700	The thousands 7 is 10 times the hundreds 7.
1.2	B ($1/10$ of)	Tens 3 = 30; hundreds 3 = 300. 30 is $1/10$ of 300.
1.3	(a) 10 (b) $1/10$	One place apart = 10 times or $1/10$.
1.4	Ones = 4, tenths = 0.4; 10 times	4 is 10×0.4 .
1.5	100 times	$5,000 \div 50 = 100$. Two places apart = 10×10 .
1.6	e.g. 1,880 (800 and 80)	The two 8s must be next to each other.
1.7	No	Tenths 6 = 0.6; hundredths 6 = 0.06. Moving right makes a digit worth $1/10$ as much.

Skill 2: Powers of 10 and exponents

Q	Answer	Key idea
2.1	A (10^5)	Five 10s multiplied.

Q	Answer	Key idea
2.2	10; 100; 10,000; 1,000,000	The exponent = the number of zeros.
2.3	(a) 36,000 (b) 59	Digits move 3 places left; 2 places right.
2.4	26.3; 263; 2,630	Each $\times 10$ moves the digits one more place left.
2.5	81.5; 8.15; 0.815	Each $\div 10$ moves the digits one more place right.
2.6	(a) 1,000 (10^3) (b) 100 (10^2)	$3.2 \rightarrow 3,200$ is 3 places; $46 \rightarrow 0.46$ is 2 places.
2.7	$3.75 \times 10^2 = 375$ kg	$10^2 = 100$.
2.8	Noor is correct: 4.5	$10^2 = 100$, so the digits move 2 places right. Ali only moved them one place.

Skill 3: Reading and writing decimals

Q	Answer	Key idea
3.1	6.052	Thousandths need 3 decimal places: 0 tenths, 5 hundredths, 2 thousandths.
3.2	A	0.309 ends in the thousandths place.
3.3	37.105	There are no hundredths, so write a 0 there.
3.4	(a) $8 \times 1 + 0 \times (1/10) + 6 \times (1/100) + 1 \times (1/1,000)$ (b) $8 + 0.06 + 0.001$	The zero term is optional.
3.5	Forty and twenty-seven hundredths; $4 \times 10 + 2 \times (1/10) + 7 \times (1/100)$	Say "and" for the point.
3.6	(a) 9 (b) 0.09 (c) 0.009	Ones, hundredths, thousandths.
3.7	2.014	He wrote hundredths. Thousandths need 3 places after the point.

Skill 4: Comparing and ordering decimals

Q	Answer	Key idea
4.1	(a) = (b) < (c) <	$0.70 = 0.7$; $3.09 < 3.90$; $12.405 < 12.450$
4.2	A (0.81)	$0.810 > 0.809 > 0.800 > 0.089$

Q	Answer	Key idea
4.3	$5.06 < 5.066 < 5.6 < 5.606$	Pad: 5.060, 5.066, 5.600, 5.606
4.4	13.04, 13.4, 13.404, 13.44	Pad: 13.040, 13.400, 13.404, 13.440
4.5	e.g. 2.305	$2.300 < 2.305 < 2.310$
4.6	$0.125 < 0.3$	Compare tenths: 1 tenth < 3 tenths. The number of digits does not decide size.
4.7	$1.050 = 1.05$ and $1.5 = 1.500$	Zeros at the end of a decimal do not change its value. 1.005 matches none.

Skill 5: Rounding decimals

Q	Answer	Key idea
5.1	3.5	Hundredths digit $8 \geq 5$, so round up.
5.2	9.74	Thousandths digit $6 \geq 5$, so round up.
5.3	(a) 19 (b) 18.9 (c) 18.93	Look at the next digit each time: 9, 2, 6.
5.4	$0.385 \rightarrow 0.4$ and 0.39 ; $7.162 \rightarrow 7.2$ and 7.16	One decisive digit each time.
5.5	(a) 2.57 g (b) the thousandths digit, 4; it is less than 5, so the hundredths digit stays	
5.6	4.55, 4.649, 4.61	4.65 rounds to 4.7; 4.549 rounds to 4.5.
5.7	2.3	She rounded twice. Look only at the hundredths digit (4), which is less than 5.
5.8	Smallest 8.35, largest 8.44	8.34 rounds to 8.3 and 8.45 rounds to 8.5.

Skill 6: Multiplying whole numbers

Q	Answer	Key idea
6.1	408	$34 \times 2 = 68$; $34 \times 10 = 340$
6.2	3,648	$152 \times 4 = 608$; $152 \times 20 = 3,040$
6.3	17,155	$365 \times 7 = 2,555$; $365 \times 40 = 14,600$
6.4	32,067	$509 \times 3 = 1,527$; $509 \times 60 = 30,540$

Q	Answer	Key idea
6.5	4,120; 16,480; 20,600	Add the partial products.
6.6	7,812 km	$186 \times 2 = 372$; $186 \times 40 = 7,440$
6.7	8,942	The 3 is 3 tens, so the second row is $263 \times 30 = 7,890$. $1,052 + 7,890 = 8,942$.
6.8	Yes: 7,192 seats, 192 to spare	$124 \times 8 = 992$; $124 \times 50 = 6,200$

Skill 7: Adding and subtracting decimals

Q	Answer	Key idea
7.1	5.77	Line up the points.
7.2	4.25	Line up the points.
7.3	8.58	$5.68 + 2.90$
7.4	2.44	$7.30 - 4.86$, regrouping
7.5	6.57	$15.00 - 8.43$
7.6	B (13.45)	A treats 0.85 as 0.085; C treats 0.85 as 8.5; D is a regrouping slip.
7.7	(a) 8.35 km (b) 0.85 km	$3.75 + 4.60$; $4.60 - 3.75$
7.8	(a) She took the smaller digit from the larger in each place ($5 - 0$, $4 - 2$) instead of regrouping. (b) $9.20 - 3.45 = 5.75$ (c) $9 - 3.5 \approx 5.5$, so 6.25 is too big.	

Skill 8: Dirham word problems

Q	Answer	Key idea
8.1	(a) AED 7.35 (b) 60 fils	Fils are hundredths.
8.2	AED 10.75	$4.25 + 6.50$
8.3	AED 6.25	$20.00 - 13.75$
8.4	No. Total is AED 7.50, so she needs AED 0.50 more.	$2.75 + 3.50 + 1.25 = 7.50$

Q	Answer	Key idea
8.5	AED 24.65	$50.00 - 23.40 = 26.60$; $26.60 - 1.95 = 24.65$
8.6	(a) Yes: about $19 + 14 = 33$, less than 35 (b) AED 33.25 total; AED 1.75 left	
8.7	(a) AED 40.05 (b) AED 4.55	Shop B is cheaper. $100.00 - 59.95$; $64.50 - 59.95$
8.8	No. Correct change is AED 7.35, so he was given AED 1.10 too much.	Check: $12.65 + 8.45 = 21.10$, not 20.