

Partitioning Numbers

Name: _____ Date: _____

Part A — Place Value Boxes

Write each digit in the place value box it belongs in.

Number	Thousands	Hundreds	Tens	Ones
535				
248				
907				
361				
4152				
7036				
2480				
9614				

Part B — Expanded Form

Write each number as the value of its parts.

1. $535 = \underline{\quad} + \underline{\quad} + \underline{\quad}$

2. $672 = \underline{\quad} + \underline{\quad} + \underline{\quad}$

3. $408 = \underline{\quad} + \underline{\quad} + \underline{\quad}$

4. $3254 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

5. $6091 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

6. $8725 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

Part C — What Is It Worth?

What is the value of the underlined digit?

1. **535** The 3 is worth _____
2. **535** The 5 is worth _____
3. **4291** The 2 is worth _____
4. **6047** The 6 is worth _____
5. **8370** The 7 is worth _____
6. **25 318** The 5 is worth _____

Part D — Challenge: Partition in Different Ways

A number can be split up in more than one way. Fill in the missing parts.

1. $352 = 3 \text{ hundreds} + \text{ ____ } \text{ tens} + 2 \text{ ones}$
2. $352 = 2 \text{ hundreds} + \text{ ____ } \text{ tens} + 2 \text{ ones}$
3. $352 = \text{ ____ } \text{ tens} + 2 \text{ ones}$
4. $461 = 3 \text{ hundreds} + \text{ ____ } \text{ tens} + 1 \text{ one}$
5. $1204 = 1 \text{ thousand} + \text{ ____ } \text{ tens} + 4 \text{ ones}$
6. $580 = 4 \text{ hundreds} + \text{ ____ } \text{ tens}$

Answer Key

Part A

1. 535: H 5, T 3, O 5
2. 248: H 2, T 4, O 8
3. 907: H 9, T 0, O 7
4. 361: H 3, T 6, O 1
5. 4152: Th 4, H 1, T 5, O 2
6. 7036: Th 7, H 0, T 3, O 6
7. 2480: Th 2, H 4, T 8, O 0
8. 9614: Th 9, H 6, T 1, O 4

Part B

1. $535 = 500 + 30 + 5$
2. $672 = 600 + 70 + 2$
3. $408 = 400 + 0 + 8$
4. $3254 = 3000 + 200 + 50 + 4$
5. $6091 = 6000 + 0 + 90 + 1$
6. $8725 = 8000 + 700 + 20 + 5$

Part C

1. 535: the 3 is worth 30
2. 535: the 5 is worth 500
3. 4291: the 2 is worth 200
4. 6047: the 6 is worth 6000
5. 8370: the 7 is worth 70
6. 25 318: the 5 is worth 5000

Part D

1. 5 tens
2. 15 tens
3. 35 tens
4. 16 tens
5. 20 tens
6. 18 tens