

## MATHEMATICS SUMMARY TABLE Grade 8

The summary table below may be used with the grade 8 mathematics Paper-Based Item Sampler or Online Tools Training (OTT). It provides an answer key, alignment to the Alaska standards, and depth of knowledge level for each question. Please note, there are two different answer keys for each grade level: one for the paper-based item samplers and one for the OTT.

Paper-Based Item Sampler - Part 1

Question #	Answer Key	Alignment with Standards	Depth of Knowledge
1	В	8.NS.A.1	1
2	С	8.EE.A.1	1
3	С	8.EE.B.5	2
4	4	8.NS.A.2	2
5	3	8.EE.A.2	1

## Paper-Based Item Sampler - Part 2

Question #	Answer Key	Alignment with Standards	Depth of Knowledge
6	В	8.G.A.3	1
7	D	8.EE.C.8	2
8	А	8.SP.A.3	2
9	D	8.F.A.2	2
10	А	8.EE.C.7	1
11	С	8.G.A.1	2
12	С	8.F.A.3	2
13	В	8.G.A.2	2
14	В	8.SP.A.1	1
15	D	8.G.A.5	2



Question #	Answer Key	Alignment with Standards	Depth of Knowledge
16	A, C	8.F.B.5	1
17	A, B, C, E	8.F.A.1	1

OTT - Part 1

Question #	Answer Key	Alignment with Standards	Depth of Knowledge
1	В	8.NS.A.1	1
2	С	8.EE.A.1	1
3	С	8.EE.B.5	2
4	4	8.NS.A.2	2
5	3	8.EE.A.2	1
6	x + 4 $5x + 2$ $6x - 33x + 2(x + 1)$ $3 + (1 - x) + 2x$ $3(2x - 1)$	7.EE.A.1	2
7	The sum of 20 and x   1.2x	7.EE.A.2	1



Question #	Answer Key		Alignment with Standards	Depth of Knowledge	
8	Negative -4.65 -4+-4	Zero	Positive -(-2)  -7  -3 + 6	7.NS.A.1	1

## OTT - Part 2

Question #	Answer Key	Alignment with Standards	Depth of Knowledge
9	В	8.G.A.3	1
10	D	8.EE.C.8	2
11	А	8.SP.A.3	2
12	D	8.F.A.2	2
13	А	8.EE.C.7	1
14	С	8.G.A.1	2
15	С	8.F.A.3	2
16	В	8.G.A.2	2
17	В	8.SP.A.1	1
18	D	8.G.A.5	2
19	A, C	8.F.B.5	1
20	A, B, C, E	8.F.A.1	1
21	18.1 (accept answers in the range $18 \le [student response] \le 18.1$ )	8.G.C.9	2



Question #	Answer Key	Alignment with Standards	Depth of Knowledge
22	Total Cost of Gym Membership  100 90 80 70 95 60 50 90 40 30 20 10 Week	8.EE.C.8	2
23	Jeff's Coin Collection  100 90 80 70 60 40 40 10 0 1 2 3 4 5 6 7 8 9 10  Number of Coins Purchased	HS.F-IF.B.5	2

