



MATHEMATICS SUMMARY TABLE

Grade 9

The summary table below may be used with the grade 9 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 Samplers - Part 1

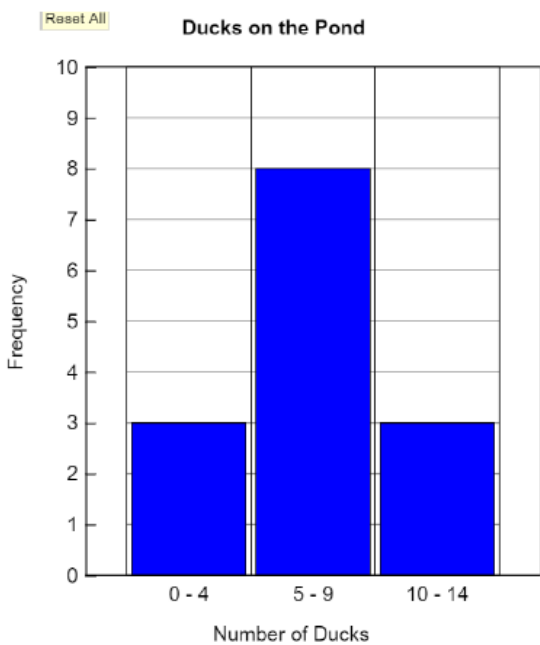
Question #	Answer Key	Alignment with Standards	Depth of Knowledge
1	C	HS.F-BF.A.2	2
2	C	HS.A-REI.C.7	2
3	C	HS.N-RN.A.2	2
4	D	HS.A-CED.A.4	1
5	A	HS.S-ID.B.5	2
6	B	HS.S-ID.A.2	2
7	A	HS.F-IF.A.2	2
8	A	HS.A-REI.A.1	1

Paper-Based Item Samplers - Part 2

Question #	Answer Key	Alignment with Standards	Depth of Knowledge
9	B	HS.A-SSE.A.2	1
10	C	HS.F-IF.B.5	2
11	A	HS.F-IF.A.1	1
12	C	HS.A-CED.A.2	1
13	D	HS.F-BF.A.1	2
14	A, F	HS.N-Q.A.1	2
15	D, E	HS.A-REI.B.3	1

Question #	Answer Key	Alignment with Standards	Depth of Knowledge
16	11	HS.A-REI.B.3	2
17	0.045	HS.F-LE.B.5	1

OTT - Part 1

Question #	Answer Key	Alignment with Standards	Depth of Knowledge
1	C	HS.F-BF.A.2	2
2	C	HS.A-REI.C.7	2
3	C	HS.N-RN.A.2	2
4	D	HS.A-CED.A.4	1
5	A	HS.S-ID.B.5	2
6	B	HS.S-ID.A.2	2
7	A	HS.F-IF.A.2	2
8	A	HS.A-REI.A.1	1
9	 <p>Reset All</p> <p>Ducks on the Pond</p> <p>Frequency</p> <p>Number of Ducks</p>	6.SP.B.4	1
10	18.1 (accept answers in the range $18 \leq [\text{student response}] \leq 18.1$)	8.G.C.9	2

Question #	Answer Key	Alignment with Standards	Depth of Knowledge
11	Eggs cost <input type="text" value="\$1.80"/> each. Pancakes cost <input type="text" value="\$2.25"/> each.	HS.A-REI.C.6	2

OTT - Part 2

Question #	Answer Key	Alignment with Standards	Depth of Knowledge
12	B	HS.A-SSE.A.2	1
13	C	HS.F-IF.B.5	2
14	A	HS.F-IF.A.1	1
15	C	HS.A-CED.A.2	1
16	D	HS.F-BF.A.1	2
17	A, F	HS.N-Q.A.1	2
18	D, E	HS.A-REI.B.3	1
19	11	HS.A-REI.B.3	2
20	0.045	HS.F-LE.B.5	1
21		HS.F-IF.B.5	2

Question #	Answer Key	Alignment with Standards	Depth of Knowledge																				
22	<p style="text-align: center;">Total Cost of Gym Membership</p>	8.EE.C.8	2																				
23		HS.S-ID.A.1	1																				
24	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Exponential Growth</th> <th>Exponential Decay</th> <th>Neither</th> </tr> </thead> <tbody> <tr> <td>$y = 10(0.75)^x$</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>$y = 10(1.25)^x$</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>$y = 10(1.25)^{x/2}$</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>$y = 10(x + 0.75)$</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </tbody> </table>		Exponential Growth	Exponential Decay	Neither	$y = 10(0.75)^x$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	$y = 10(1.25)^x$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	$y = 10(1.25)^{x/2}$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	$y = 10(x + 0.75)$	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HS.F-IF.C.8.b	1
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