

Calculus

F 25 January 2013

RESET THE
SESSION

SET THE
PARTICIPANT
LIST

PLUG IN THE
RECEIVER

Boxed answers agree with
TurningPoint answers

Points agree with
TurningPoint points

Points total to 100

Topics covered are in bounds

QUIZ
FOLLOWS

$$f(1) = 200$$
$$f(3) = 800$$

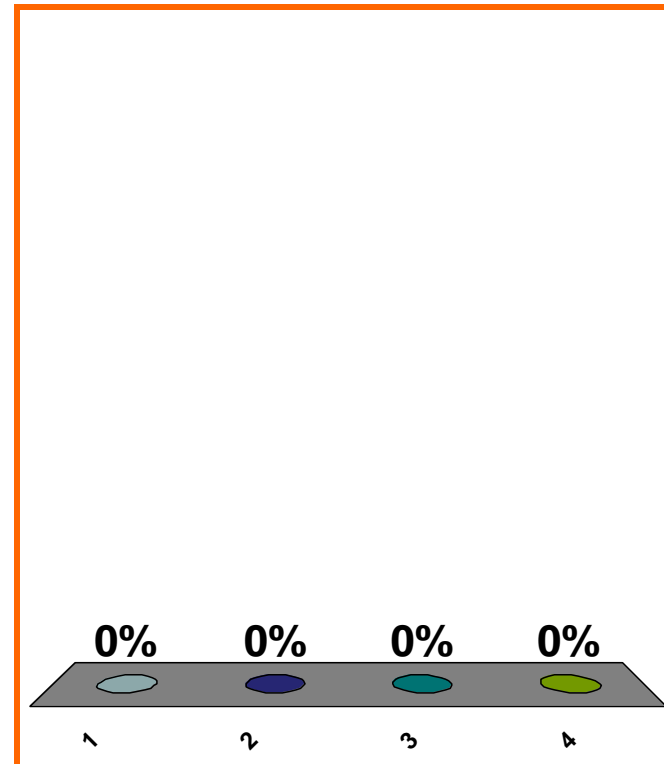
avg rate of change?

(a) $(200 - 800)/(1 - 3)$

(b) $(1 - 3)/(200 - 800)$

(c) $(800 - 200)/(1 - 3)$

(d) none of the above



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

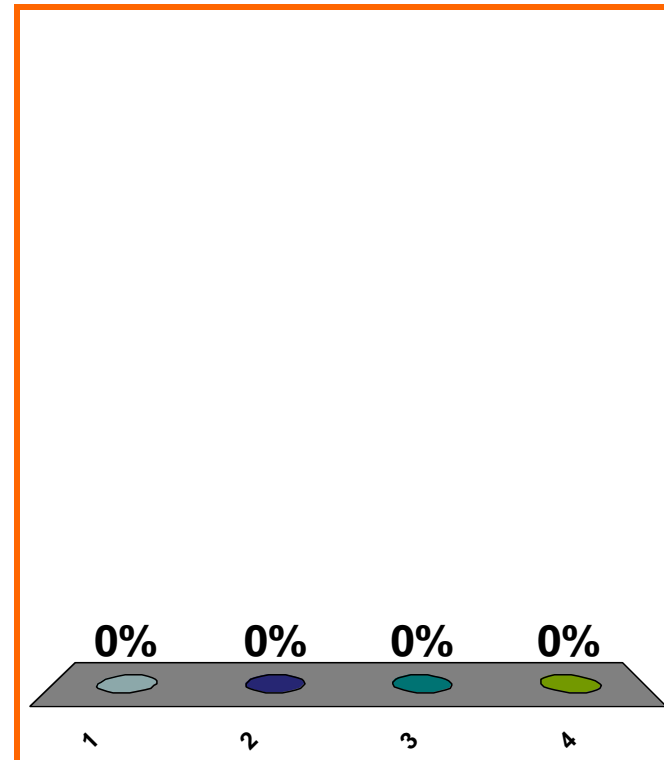
position = t^2
velocity = ??

(a) $2t$

(b) $t/2$

(c) t^2

(d) none of the above



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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$$\ln(x + y) = ??$$

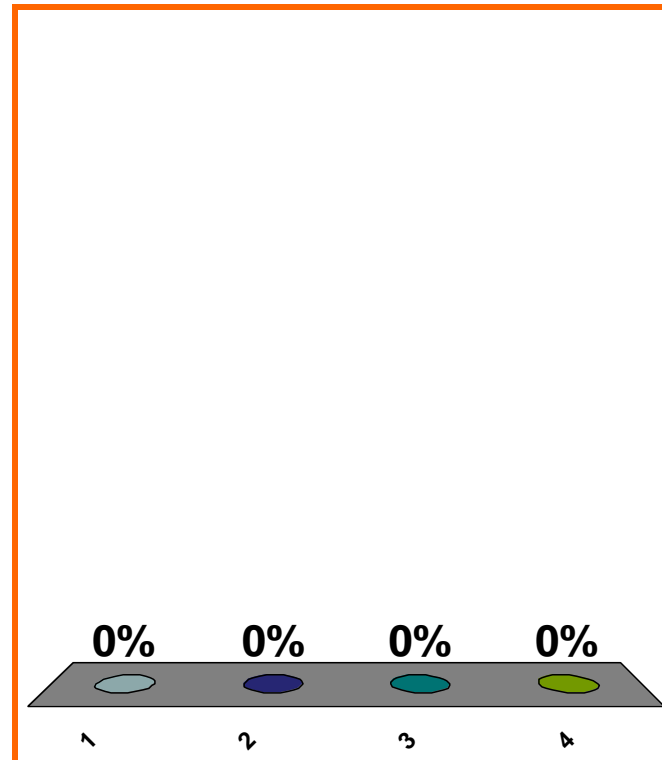
(a) $(\ln x) + (\ln y)$

(b) $(\ln x)(\ln y)$

(c) $(\ln x) - (\ln y)$

(d) none of the above

Correct ans: no simplification



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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0 of 5

precalc

0 pts

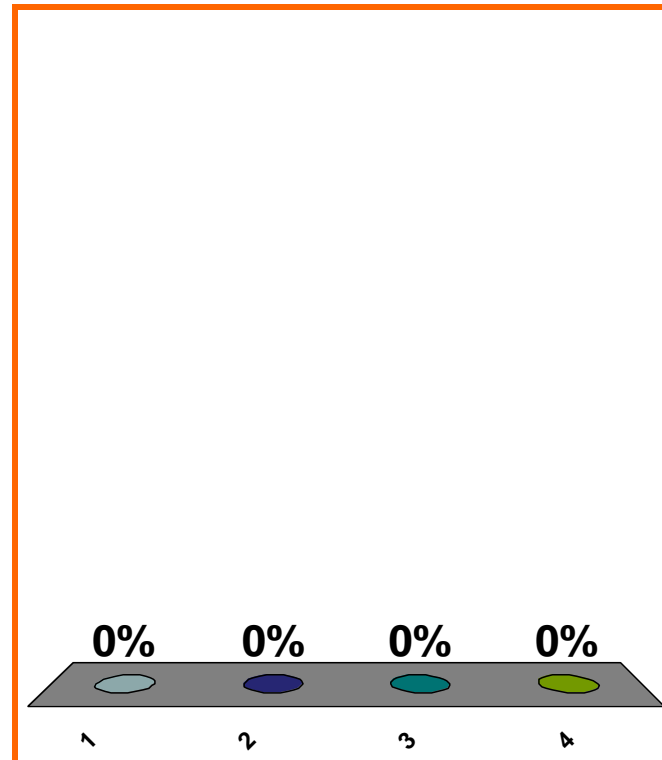
$$\sin(x + y) = ??$$

(a) $(\sin x) + (\sin y)$

(b) $(\cos x)(\cos y) - (\sin x)(\sin y)$

(c) $(\sin x)(\cos y) + (\cos x)(\sin y)$

(d) none of the above



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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0 of 5

precalc

0 pts

8

$\pi/4$ radians = ?? degrees

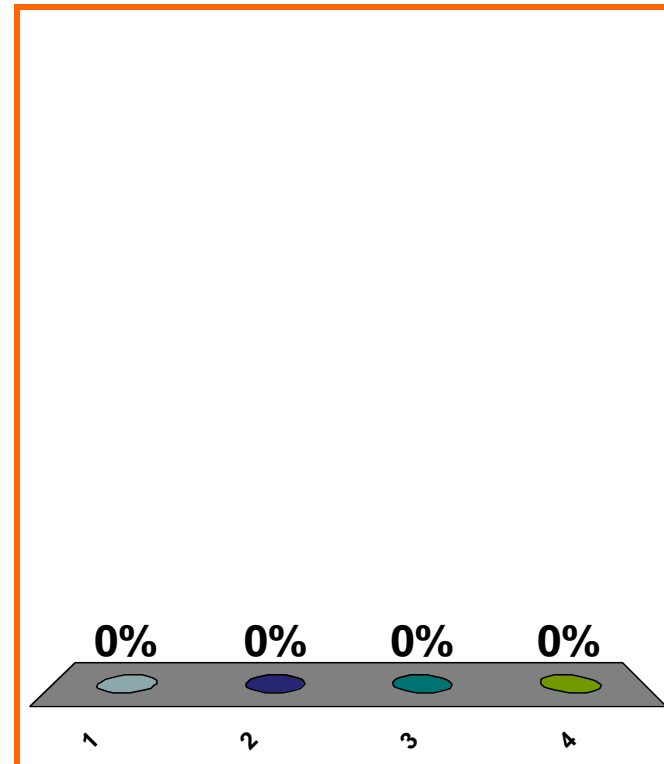
(a) 30

(b) 60

(c) 90

(d) none of the above

Correct answer: 45



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0 of 5

precalc

0 pts

END
QUIZ

END
CLASS

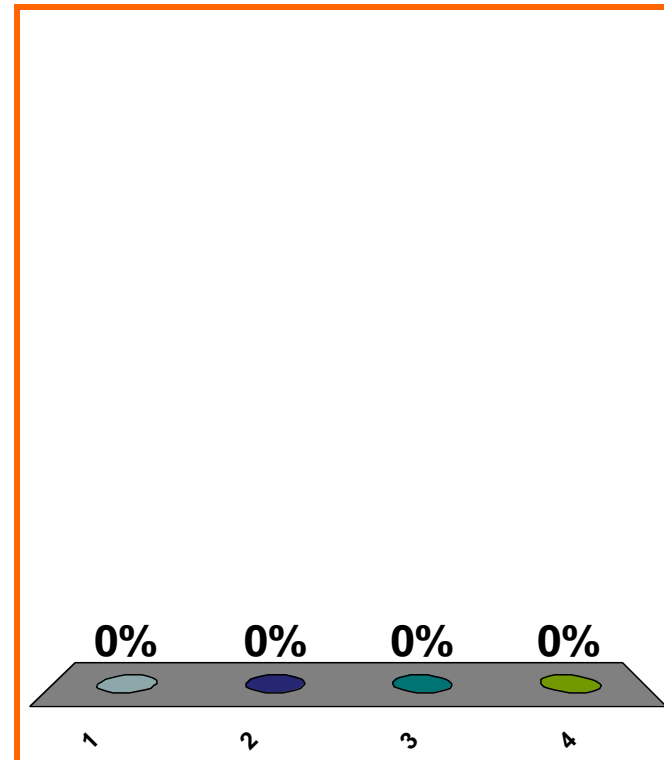
$$\frac{a}{b/c} = ??$$

(a) $\frac{ab}{c}$

(b) $\frac{a}{bc}$

(c) $\frac{ac}{b}$

(d) none of the above



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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0 of 5

precalc

0 pts

12

$$\frac{a}{b+c} = ??$$

(a) $\frac{a}{b} + \frac{a}{c}$

(b) $\frac{a}{b} + c$

(c) $b + \frac{a}{c}$

(d) none of the above

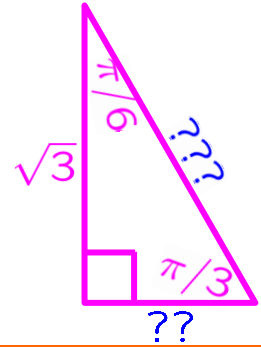
Correct ans: no simplification

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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0 of 5

precalc

0 pts



(a) ?? = 1 and ??? = 2

(b) ?? = 1 and ??? = 1

(c) ?? = 1 and ??? = $\sqrt{3}/2$

(d) none of the above

0%
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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0 of 5

precalc

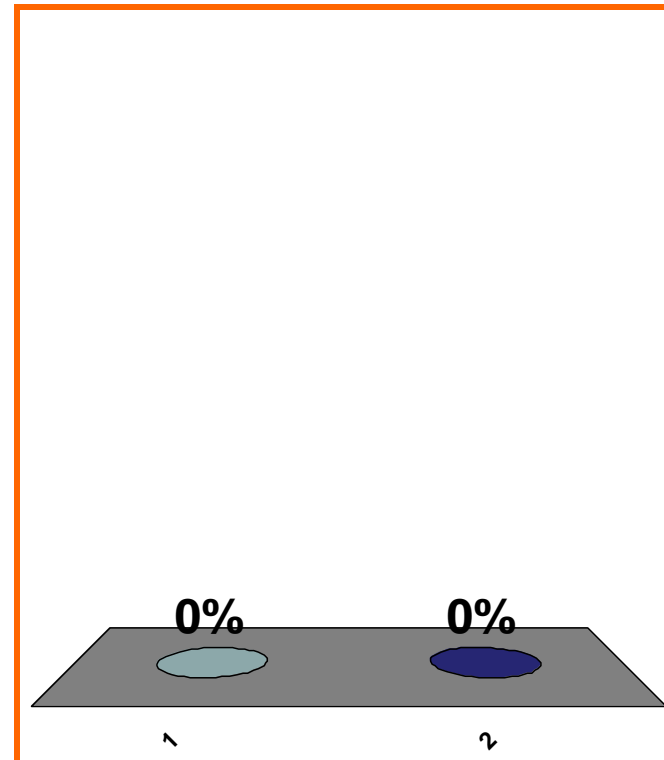
0 pts

T or F:

$$\exists x \in \mathbb{R} \text{ s.t. } x^2 = 2$$

(a) True

(b) False



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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0 of 5

Topic 0010

0 pts

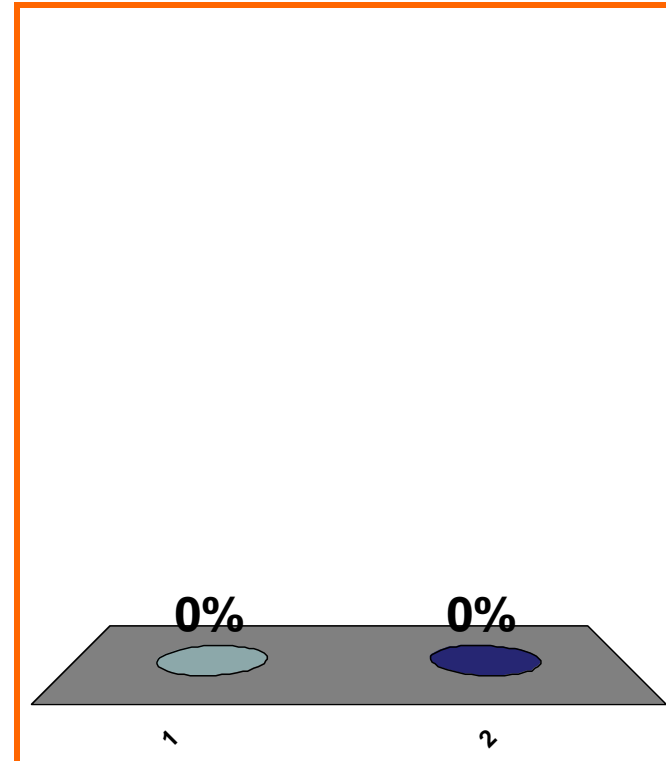
15

T or F:

$$\exists x \in \mathbb{R} \text{ s.t. } x^2 = -1$$

(a) True

(b) False



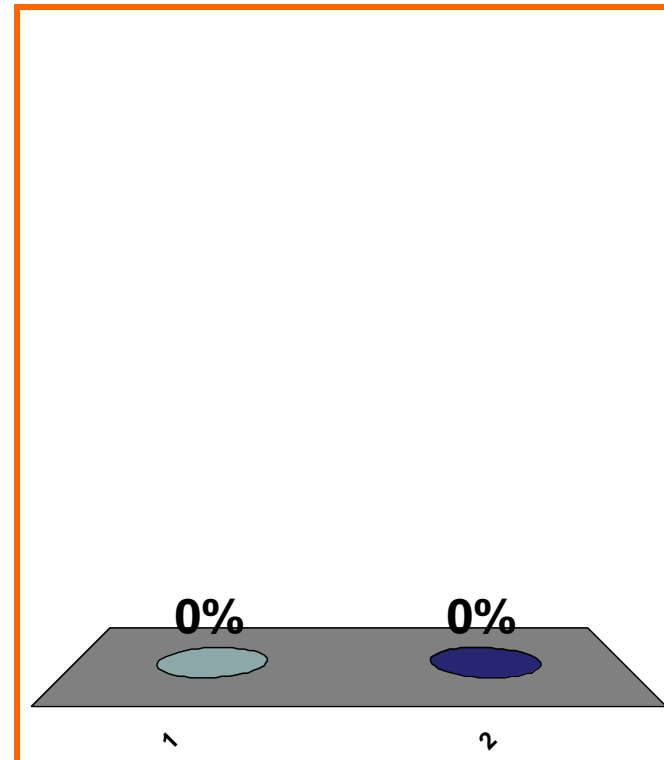
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21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

T or F:

$$\exists x \in \mathbb{Q} \text{ s.t. } x^2 = 2$$

(a) True

(b) False



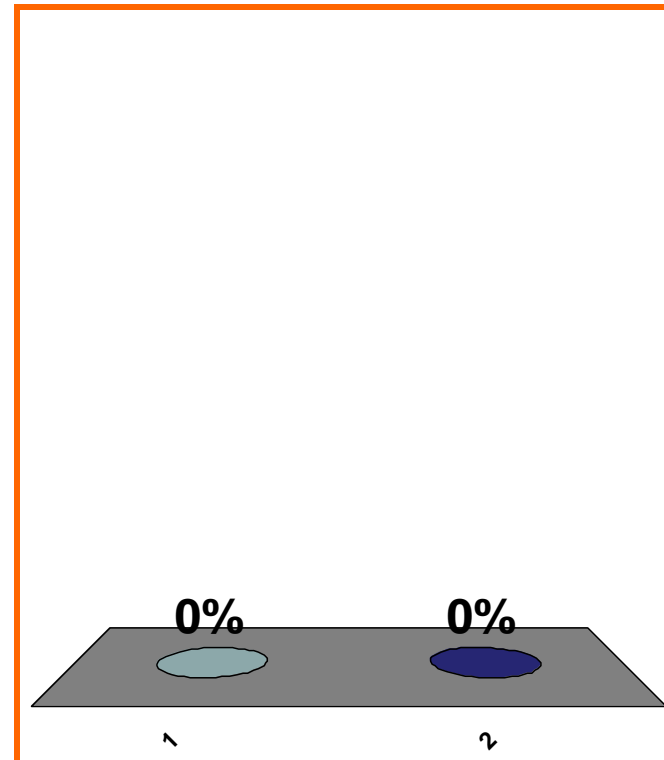
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T or F:

$(-\infty, 5]$ is compact

(a) True

(b) False



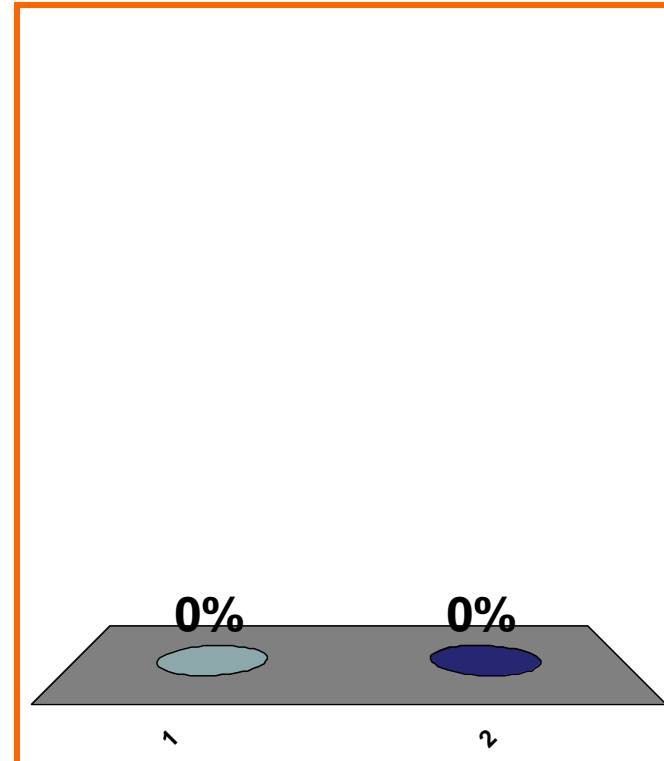
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21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

T or F:

$[-1, 2]$ is compact

(a) True

(b) False



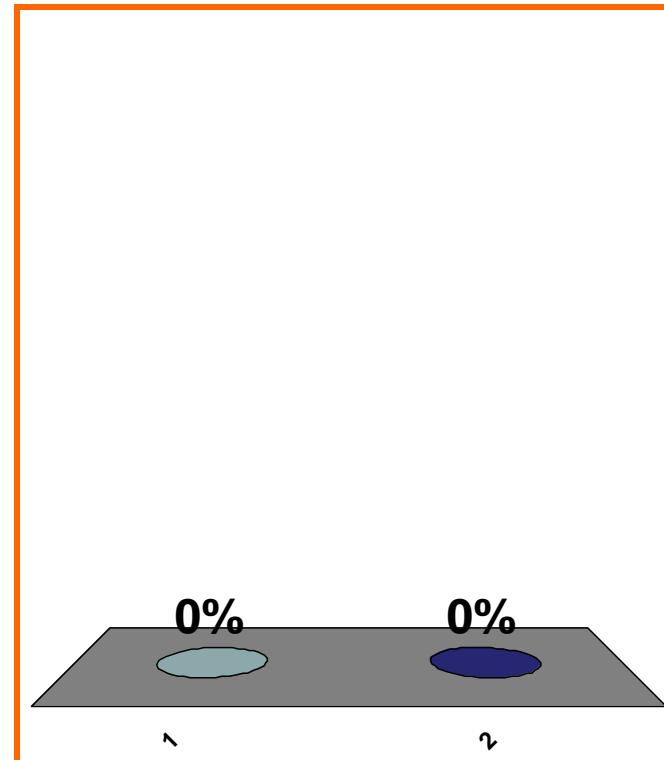
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

T or F:

$(-1, 1)$ is open

(a) True

(b) False



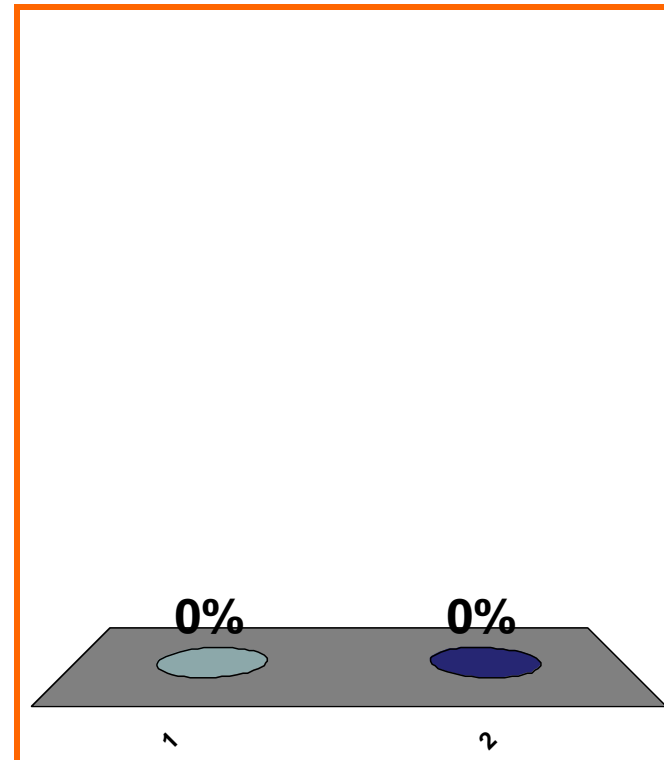
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

T or F:

$[-1, \infty)$ is closed

(a) True

(b) False



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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SAVE THE
SESSION
DATA

RETURN TO
PRESENTATION