Logarithms for Humans

SELF CHECK 4

They keep coming!

SELF CHECK 4

Question 1 [$10 = 10^1$ points]

According to your calculator, which number is closest to the value of $10^{0.903}$?

a) 5 b) 7 c) 8 d) 12

Question 2 [$100 = 10^2$ points]

According to your calculator, which number is closest to the value of $\log_{10}(38)$?

a) 1.580 b) one million c) one millionth

Question 3 [$1,000 = 10^3$ points]

Match each item on the left with an item on the right.

$\log_b(b)$	0
$\log_b(1)$	1
$\log_b(b^2 \times b^5)$	2
$\log_b(\frac{b^9}{b^2})$	7
$\log_b(\frac{b^7 \times b^{-2}}{b^6 \times \frac{1}{b}})$	9

Question 4 [$10,000 = 10^4$ points]

Knowing that $\log_{10}(677) \approx 2.831$, do we know the value of $10^{2.831}$?

a) Yes, we do! It is exactly 677.
b) Almost! It is a value close 677.
c) Yes, we do! But it is a value that has nothing to do with the value 677.
d) It is impossible to say anything about its value.

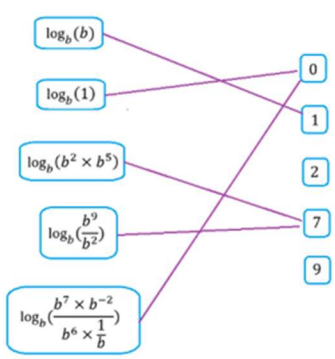
Question 5 [$100,000 = 10^5$points]

Match each item on the left with an item on the right.

$\log_3(5) + \log_3(4)$	1
$\log_3(9)$	2
$\log_3(20 \times 9)$	$\log_3(20)$
$\log_3(60)$	$\log_3(20) + 1$
$\log_3(2) + \log_3(10)$	$\log_3(20) + 2$

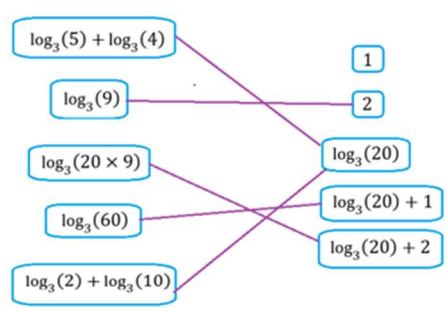
1. c) **2.** a)

3.



4. b)

5.



Answers: