



Are you ready for Beast Academy 1D?



Before beginning Beast Academy 1D, students should be able to add and subtract numbers within 100 using a variety of strategies.

Beginner readers may need lots of help using Beast Academy 1D.

A student ready for Beast Academy 1D should be able to answer at least 15 of the 21 problems below correctly.

Step 1. The student should try to answer every question with reading help from a parent if needed.

Step 2. Check the student's answers using the solutions at the end of this document.

Step 3. The student should be given a second chance on problems answered incorrectly.

Fill in the blanks to make the equations below true.

1. $40 + 20 = \square$

2. $50 + 30 = \square$

3. $70 - 20 = \square$

4. $90 - 30 = \square$

5. $32 + 20 = \square$

6. $47 + \square = 77$

7. $20 + 34 = 50 + \square$

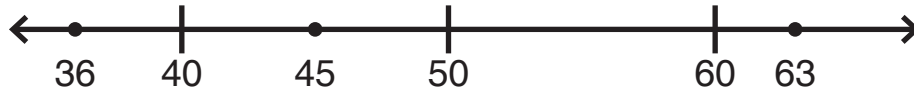
8. $39 + 37 = 40 + \square$

9. $7 + 9 + \square = 20$

10. $56 - 29 = \square - 30$



Are you ready for Beast Academy 1D?



Use the number line above to help you find each distance below.

11. From 36 to 45 is _____ units. 12. From 45 to 63 is _____ units.
13. From 45 to 60 is _____ units. 14. From 36 to 63 is _____ units.

Fill the empty boxes to complete each pattern below.

15. $\begin{array}{cccccccccc} & +10 & & +10 & & +10 & & +10 & & +10 & & +10 & & +10 & & +10 & & +10 \\ & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright \\ \square & \square & 23 & \square & \square & \square & 63 & \square & \square \end{array}$

16. $\begin{array}{cccccccccc} & +5 & & +5 & & +5 & & +5 & & +5 & & +5 & & +5 & & +5 \\ & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright \\ \square & \square & 25 & 30 & \square & \square & \square & \square & \square \end{array}$

17. $\begin{array}{cccccccccc} & +3 & & +3 & & +3 & & +3 & & +3 & & +3 & & +3 \\ & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright \\ \square & \square & \square & \square & 54 & 57 & \square & \square & \square \end{array}$

Place a $<$, $>$, or $=$ in each circle below.

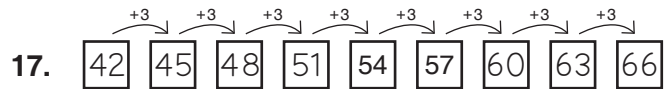
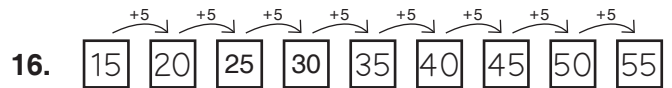
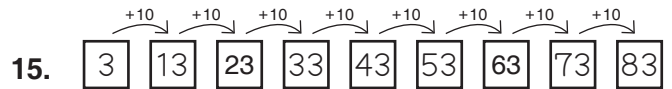
18. $10+20$ \bigcirc $11+22$ 19. $38+39$ \bigcirc $60+16$
20. $35+53$ \bigcirc $33+55$ 21. $23+24+25$ \bigcirc $24+25+26$



Are you ready for Beast Academy 1D?

Solutions

- $40+20=$ 60
- $50+30=$ 80
- $70-20=$ 50
- $90-30=$ 60
- $32+20=$ 52
- $47+$ 30 $= 77$
- $20+34=50+$ 4 (Add the tens first: $20+30=50$.)
- $39+37=40+$ 36
(Think of $39+37$ as apples in two baskets. We can take one apple from the basket of 37 and put it in the basket of 39 without changing the total number of apples. So, $39+37=40+36$.)
- $7+9+$ 4 $= 20$
- $56-29=$ 57 $- 30$
We can think of subtraction as the distance between two numbers on the number line.
The distance between 56 and 29 is the same as the distance between 57 and 30.



18. $10+20$ $\left(< \right)$ $11+22$
Each number on the right is larger than the number in its place on the left.
19. $38+39$ $\left(> \right)$ $60+16$
On the left, $30+30=60$, and $8+9=17$.
 $60+17 > 60+16$.

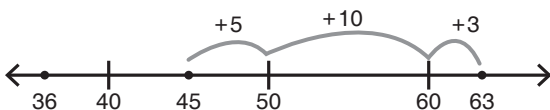
20. $35+53$ $\left(= \right)$ $33+55$
On both sides, the tens add to 80 and the ones add to 8.
(Both sides equal 88.)

21. $23+24+25$ $\left(< \right)$ $24+25+26$
Each number on the right is one more than the number in the same position on the left.
—or—
Both sides include $24+25$. But, the left side has a 23 and the right side has a 26. So, $23+24+25 < 24+25+26$.

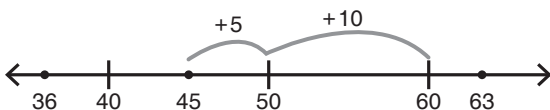
11. From 36 to 45 is 9 units.



12. From 45 to 63 is 18 units.



13. From 45 to 60 is 15 units.



14. From 36 to 63 is 27 units.

