Warm-Up 1

31. _____ What is the value of $5 - 5 \times 5 + 5 \div 5$?

32. _____ diagonals How many diagonals are in a convex heptagon?

33. _____ What is the first year after 2018 that is a palindrome?

34. _____ A standard 52-card deck of playing cards includes four aces. What is the probability that two cards selected randomly, without replacement, will both be aces? Express your answer as a common fraction.

35. _____ What is the value of $\sqrt{2 \cdot 3 \cdot 4 \cdot 5 \cdot 6 \cdot 7 \cdot 10}$? Express your answer in simplest radical form.

36. _____ °F The temperature dropped from 13 °F to −5 °F. How many degrees Fahrenheit is the absolute value of the change in temperature?

37. _____ What is the value of $1 \times 2 + 3 \div 6 \times 5 - 4$? Express your answer as a common fraction.

38. _____ If $x \circledR y$ is defined as $x^2 - y^2$, what is the value of $3 \circledR (2 \circledR 1)$?

39. _____ If the digits 7, 8, 2, 3 and 0 are used, each exactly once, to form a three-digit positive integer and a two-digit positive integer that differ by exactly 288, what is the sum of the three-digit integer and the two-digit integer?

40. _____ degrees In rectangle ABCD, point P lies on side BC and point Q lies in the interior of the rectangle so that triangle APQ is equilateral. If the measure of angle PAB is 17 degrees, what is the measure of angle QPC?