Rounded off to 3 decimal places.

Mean = ( 28 + 35 + 26 + 32 + 28 + 28 + 35 + 34 + 46 + 42 + 37 ) / 11

= 371 / 11

= 33.7272727272…

Standard deviation =

(28 – 33.73)^2 32.83

(35 – 33.73)^2 1.61

(26 – 33.73)^2 59.75

(32 – 33.73)^2 2.99

(28 – 33.73)^2 32.83

(28 – 33.73)^2 32.83

(35 – 33.73)^2 1.61

(34 – 33.73)^2 0.07

(46 – 33.73)^2 150.55

(42 – 33.73)^2 68.39

(37 – 33.73)^2 10.69

32.83 + 1.61 + 59.75 + 2.99 + 32.83 + 32.83 + 1.61 + 0.07 + 150.55 + 68.39 + 10.69 = 394.15

Variance = 394.15 / 11 35.83

Standard deviation 5.99

Standard scores = (28 – 33.73) / 5.99, (35 – 33.73) / 5.99, (26 – 33.73) / 5.99, (32 – 33.73) / 5.99, (28 – 33.73) / 5.99, (28 – 33.73) / 5.99, (35 – 33.73) / 5.99, (34 – 33.73) / 5.99, (46 – 33.73) / 5.99, (42 – 33.73) / 5.99, (37 – 33.73) / 5.99

-0.96, 0.21, -1.29, -0.29, -0.96, -0.96, 0.21, 0.05, 2.05, 1.38, 0.55

So, student that score is -1.29(original score = 26) should receive F because the score is in the tail of the distribution curve(mean +- standard deviation).

