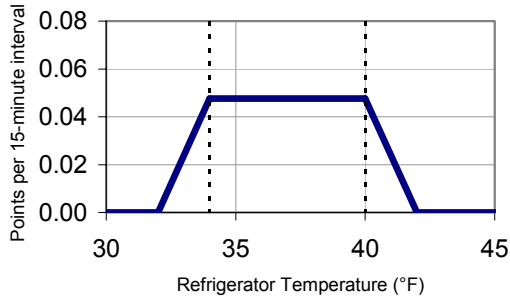


## Contest 6: Appliances

### ***Refrigeration Temperature Control (20 pts):***

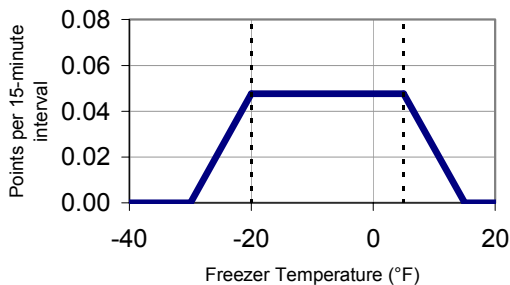
Teams earn a maximum number of points per scored 15-minute interval by keeping the time-averaged interior refrigerator temperature between 34.0°F (1.11 °C) and 40.0°F (4.44 °C). A reduced point value is added to the team's score for every scored 15-minute interval in which the time-averaged interior refrigerator temperature is between 32.0°F (0.00 °C) and 34.0°F (1.11 °C) or between 40.0°F (4.44 °C) and 42.0°F (5.56 °C). Reduced point values are scaled linearly, as shown in the graph below.



Maximum points per 15-minute interval:	0.0476 points
Full Points:	$34\text{ }^{\circ}\text{F} \text{ ( } 1.1\text{ }^{\circ}\text{C) } \leq \text{ Temperature } \leq 40\text{ }^{\circ}\text{F} \text{ ( } 4.4\text{ }^{\circ}\text{C) }$
Reduced Points:	$32\text{ }^{\circ}\text{F} \text{ ( } 0.0\text{ }^{\circ}\text{C) } < \text{ Temperature } < 34\text{ }^{\circ}\text{F} \text{ ( } 1.1\text{ }^{\circ}\text{C) }$ or $40\text{ }^{\circ}\text{F} \text{ ( } 4.4\text{ }^{\circ}\text{C) } < \text{ Temperature } < 42\text{ }^{\circ}\text{F} \text{ ( } 5.6\text{ }^{\circ}\text{C) }$
No Points:	$\text{Temperature } \leq 32\text{ }^{\circ}\text{F} \text{ ( } 0.0\text{ }^{\circ}\text{C) }$ or $\text{Temperature } \geq 42\text{ }^{\circ}\text{F} \text{ ( } 5.6\text{ }^{\circ}\text{C) }$

### ***Freezer Temperature Control (20 pts):***

Teams earn a maximum number of points per scored 15-minute interval by keeping the time-averaged interior freezer temperature between -20.0°F (-28.9 °C) and 5.0°F (-15.0 °C). A reduced point value is added to the team's score for every scored 15-minute interval the time-averaged interior freezer temperature is between -30.0°F (-34.4 °C) and -20.0°F (-28.9 °C) or between 5.0°F (-15.0 °C) and 15.0°F (-9.44 °C). Reduced point values are scaled linearly, as shown in the graph below.



Maximum points per 15-minute interval:	0.0476 points
Full Points:	$-20\text{ }^{\circ}\text{F} \text{ ( } -29\text{ }^{\circ}\text{C) } \leq \text{ Temperature } \leq 5\text{ }^{\circ}\text{F} \text{ ( } -15\text{ }^{\circ}\text{C) }$
Reduced Points:	$-30\text{ }^{\circ}\text{F} \text{ ( } -34\text{ }^{\circ}\text{C) } < \text{ Temperature } < -20\text{ }^{\circ}\text{F} \text{ ( } -29\text{ }^{\circ}\text{C) }$ or $5\text{ }^{\circ}\text{F} \text{ ( } -15\text{ }^{\circ}\text{C) } < \text{ Temperature } < 15\text{ }^{\circ}\text{F} \text{ ( } -9.4\text{ }^{\circ}\text{C) }$
No Points:	$\text{Temperature } \leq -30\text{ }^{\circ}\text{F} \text{ ( } -34\text{ }^{\circ}\text{C) }$ or $\text{Temperature } \geq 15\text{ }^{\circ}\text{F} \text{ ( } -9.4\text{ }^{\circ}\text{C) }$

***Clothes Washing Tasks (15 pts):***

Teams may earn 7.5 points per day on two days of the Contest Week by washing 12 towels provided by the Organizers. An automatic clothes washer approved by the Organizers must complete a normal factory-set, automatic cycle without intervention during the cycle. The water temperature must reach 110 °F (43.3°C) at some point during the cycle to earn the points.

***Clothes Drying Tasks (15 pts):***

After performing the clothes washing tasks on two days of Contest Week, teams may earn 7.5 points per day by drying the 12 towels provided by the Decathlon organizers to a weight less than or equal to the towels' original weight. A 6-hour time period will be defined, during which the towels must be collected, washed, dried, and returned. The drying method may include active drying (e.g., machine-dry), passive drying, (e.g., on a clothes line), or any combination of active or passive drying. All drying methods that require the towels to be visible must be demonstrated to the Architecture Jury and Dwelling Panel of Judges as they tour the houses.

***Dishwashing Tasks (10 pts):***

Teams may earn 2 points per day 5 days of the Contest Week by running an automatic dishwasher approved by the Organizers through a complete, approved, factory-set, automatic washing cycle without intervention during the cycle. The temperature of a dish placed in the dishwasher must reach 115°F (46.1 °C) at some point during the cycle.

**Cooking Tasks (10 pts):**

Teams will be required to cook dinners for six people for 4 days of the Contest week. Successfully completed dinners will receive 2.5 points each. At a minimum, kitchens must include a cooktop and oven to complete cooking tasks.

***TV/Video Operation (5 pts):***

Teams may earn 1 point per day for 5 days of the Contest Week by showing a video on a TV monitor continuously from 10 a.m. to 4 p.m.

***Computer Operation (5 pts):***

Teams may earn 1 point per day for 5 days of the Contest Week for operating their computer and monitor continuously from 9 a.m. to 5 p.m. The computer and monitor may enter low-energy mode at any time.

<b>Contest Activity</b>	<b>Points Available</b>
Refrigeration Temperature Control	20
Freezer Temperature Control	20
Clothes Washing Tasks	15
Clothes Drying Tasks	15
Dishwashing Tasks	10
Cooking Tasks	10
TV/Video Operation	5
Computer Operation	5
<b>TOTAL</b>	<b>100</b>

#### Summary of Revisions

November 2, 2004

- Added link to *Cooking Task (Contest 6 Details)*.